INDEX OF AUTHORS' NAMES, 1929.

A.

Aggarwal, *Joti S.*, *Nand L.* **Darbari**, and *Jñanendra N.* **Rây**, phthalazines. Part I., 1941.

Allmand, *Arthur J.*, on the connexion between absorbed energy and velocity in photochemical reactions of the I^{0}'s type, 1557.

Allmand, *Arthur J.*, and *Walter W.* **Webb**, the photolysis of potassium ferrioxalate solutions. Part I. Experimental, 1518.

the photolysis of potassium ferrioxalate solutions. Part II. Discussion, 1531.

Anderson, *Cameron G.*, *William* **Charlton**, and *Walter N.* **Haworth**, the constitution of glucose-monoacetone, glucose-diacetone, and of the derived 3:5:6-trimethyl glucose and 3-monomethyl glucose, 1329.

Anderson, *Cameron G.*, *William* **Charlton**, *Walter N.* **Haworth**, and *Vincent S.* **Nicholson**, the constitution of α- and β-fructose-diacetones; the alleged oxidative degradation of the derived monomethyl and tetramethyl fructose, 1337.

Andrew, *Leslie W.* See *Dalziel L.* **Hammick**.

Angell, *Frederick G.*, *Robert G.* **James**, and *William* **Wardlaw**, complex bromides of quinquevalent molybdenum, 2578.

Anslow, *Winston K.*, and *Harold* **King**, the constitution of the red isomeride of creatinine picrate responsible for Jaffé's colour reaction, 1210.

the synthesis of glycine, 2463.

Aubel, *Edmond van*, the viscosity of ether at low temperatures, 1111.

Avery, *John*, and *Edmund L.* **Hirst**, the structure of normal monosaccharides. Part VI. 2:3-4-Trimethyl rhamnonolactone, 2466.

Ayling, *Ernest E.*, the chlorination of phthalic acid in alkaline solution, 253.

B.

Bailey, *Charles R.*, and *Kun-Hou* **Lih**, the infra-red emission spectra of flames in nitrous oxide, 51.

Baines, *Harry*, a volumetric method for determining silver in the presence of halides and cyanides, 2037.

the argentothiosulphuric acids and their derivatives. Part I. The preparation of the sodium salts and the isolation of monoargentomonothiosulphuric acid, 2763.

Baker, *Herbert B.*, manipulation in intensive drying, 1661.

Baker, *John W.*, the mechanism of tautomeric interchange and the effect of structure on mobility and equilibrium. Part IV. Further evidence relating to the mechanism of acid catalysis in the mutarotation of nitrogen derivatives of tetra-acetylglucose, 1205.

the nature of the alternating effect in carbon chains. Part XXXI. The directive influence of ψ-acid systems in aromatic substitution; nitration of ψ-acidic phenylnitromethanes and their salts, 2257.

Baker, *John W.*, and *Christopher K.* **Ingold**, the nature of the alternating effect in carbon chains. Part XXX. The nitration of phenylbromocyanonitromethane, with special reference to an alleged example of intramolecular *meta*-rearrangement, 423.

Baker, *Julian L.*, and *Henry F. E.* **Hulton**, amylases of the cereal grains —oats, 1655.

Baker, *Wilson*, some substances derived from the anhydrocatechin tetramethyl ethers, 1593.

Baker, *Wilson*, and (*Miss*) *Frances M.* **Eastwood**, colloidal phenoxides. Part I. The relation between constitution and colloidal properties in benzo-γ-pyrones, 2897.

Baker, *Wilson*, *Ryuzabubo* **Nodzu**, and *Robert* **Robinson**, anthoxanthins. Part X. The synthesis of gossypetin and of quercetagetin, 74.

Baker, *Wilson*, *Alfred* **Pollard**, and *Robert* **Robinson**, synthetical experiments in the *iso*flavone group. Part V. A new general method applicable to the synthesis of derivatives of 7-hydroxy*iso*flavone, 1468.

Baker, *Wilson*, and *Robert* **Robinson**, synthetical experiments in the *iso*flavone group. Part IV. A synthesis of 2-methylirigenol, 152.

Balaban, *Isidore E.*, 3:4-methylenedioxyphenylarsinic acid, 1088.

the nitration of 3-hydroxy-1:4-benz*iso*oxazine and its 7- and 8-acetamido-derivatives, 2607.

Baldwin, *Alfred W.*, attempts to find new anti-malarials. Part III. Some substituted aminoalkylaminoquinolines, 2959.

Bangham, *Donald H.*, and *Douglas R.* **Lewis**, the effect of gases on the electric charges developed by heated metals, 1140.

Barber, *Harry J.*, diphenylaminearsinic acids. Part I. Derivatives of diphenylamine-4-arsinic acid, 471.

some derivatives of arylthioarsinous acids, 1020.

thiolacetamide as a reagent for identifying arsinic acids, 1024.

nitration of halogenophenylarsinic acids, 2333.

Bardhan, *Jogendra C.*, the chemistry of 1:3-dicarbonyl compounds. Part I. The mechanism of the cyanoacetamide and cyanoacetic ester condensations, 2223.

Barger, *George*, and *Robert* **Robinson**, attempts to find new anti-malarials; introduction, 2947.

Barker, *Thomas V.* See *John* **Read**.

Barnett, *Edward de B.*, and *Norman F.* **Goodway**, the synthesis of *meso*-alkyl and *meso*-aryl anthracene derivatives. Parts V. and VI., 20, 1754.

9-benzhydrylanthrone and *iso*dianthranyl, 813.

Barrett, *Herbert S. B.*, *William H.* **Perkin**, *jun.*, and *Robert* **Robinson**, harmine and harmaline. Part X. The synthesis of 7- and 8-methoxyketotetrahydro-β-carbolines and the constitution of acetylharmaline, 2942.

Bassett, *Harold L.*, and (*Miss*) *Katherine F.* **Taylor**, the reactions of a mixture of ethyl ether, acetyl bromide, and naphthol, 1568.

Bastow, *S. H.* See *A. L.* **McAulay**.

Bell, *Ernest V.*, and *George M.* **Bennett**, stereoisomerism of disulphoxides and related substances. Part IV. Di- and tri-sulphoxides of trimethylene trisulphide, 15.

Bell, *Ernest V.*, *George M.* **Bennett**, and *Frederick G.* **Mann**, the isomeric trithioacetaldehydes, 1462.

Bell, *Frank*, the nitration of β-naphthylamine, 2784.

the interaction of nitroamines with sulphonyl chlorides, 2787.

Bennett, *George M.*, and *Frederick* **Heathcoat**, some derivatives of the aliphatic glycols, 268.

Bennett, *George M.*, *Frederick* **Heathcoat**, and *Arthur N.* **Mosses**, the influence of the sulphur atom on the reactivity of adjacent atoms or groups. Part III. β- and ε-Chloro-sulphides, 2567.

Bennett, *George M.*, and *Walter L.* **Pratt**, 2:4-dinitrobenzaldehyde as a reagent, 1465.

Bennett, *George M.*, and *William B.* **Waddington**, studies in the penthian series. Part II. Penthian-4-one, 2829.

studies in the penthian series. Part III. Stereoisomeric derivatives of some penthianols, 2832.

Bennett, *George M.*, and *Gervase H.* **Willis**, the structure of organic molecular compounds, 256.

Bennett, *George M.* See also *Ernest V.* **Bell**.

Best, *Rupert J.*, and *Alwyn B.* **Cox**, studies of a Bredig silver hydrosol, 2727.

Bhattacharya, *Mandal.* See *David H.* **Peacock**.

Bills, *Edwin J.* See *James C.* **Duff**.

Blount, *Bertie K.*, *William H.* **Perkin**, *jun.*, and *Sydney G. P.* **Plant**, stereoisomerism in polycyclic systems. Part VI., 1975.

Bodenstein, *Max*, *William* **Jost**, and *Gerhard* **Jung**, the influence of the intensity of illumination on the velocity of the photochemical union of bromine and hydrogen, 1153.

Bone, *William A.*, notes on intensive drying of gaseous media, 1664.

Boon, *Alfred A.*, and *Hugh B.* **Nisbet**, some reactions of *mm'*-dinitrobenzil, 1901.

Bose, *Atul C.*, and *William* **Doran**, studies in the sterol group. Part V. The constitution of cholesterilene, 2244.

Bowen, *Edmund J.*, and *Alexander C.* **Cavell**, experiments on the oxidation of phosphorus vapour, 1920.

Bowen, *Edmund J.*, and *Edwin T.* **Yarnold**, the photochemical oxidation of ethyl alcohol by potassium dichromate. Part II., 1648.

Boyd, *David R.*, and *G. J. C.* **Vineall**, the reaction between magnesium phenyl bromide and phenyl glycide, 1622.

Boyle, (*Miss*) *Mary*. See *Tom S.* **Moore.**
Bradfield, *Alan E.*, and *Brynmor* **Jones**, two apparent cases of liquid crystal formation, 2660.
Bradfield, *Alan E.*, *Brynmor* **Jones**, and *Kennedy J. P.* **Orton**, the halogenation of phenolic ethers and anilides. Part I. The bromination of ethers in 50% acetic acid, 2810.
Bradfield, *Alan E.*, and *Kennedy J. P.* **Orton**, the transformation of phenylnitroamines into nitroanilines. Part I., 915.
Bradfield, *Alan E.*, and *Albert F.* **Williams**, the solubility of certain anilides in water-acetic acid mixtures, 2542.
Brady, *Oscar L.*, and *Navnitlal M.* **Chokshi**, the isomerism of the oximes. Part XXXIV. The dissociation constants of isomeric oximes and their influence on the production of the isomerides in alkaline solution, 946.
the isomerism of the oximes. Part XXXVI. The methylation of aldoximes and ketoximes, 2271.
Brady, *Oscar L.*, *James N. E.* **Day**, and *Cedric V.* **Reynolds**, the reduction of nitro-compounds in pyridine solution, 2264.
Brady, *Oscar L.*, and *Frank H.* **Peakin**, the action of semicarbazide hydrochloride and of 2:4-dinitrophenylhydrazine hydrochloride on aldoximes and their derivatives, 478.
the isomerism of the oximes. Part XXXV. The amidoximes, 2267.
Bretscher, *Egon*. See *H. Gordon* **Rule**.
Briggs, *Samuel H. C.*, the preparation of some metallic chromates, 242.
chromatocobaltiammines. Part II. The dichromatotetramminecobaltiates and the maximum co-ordination number of cobalt, 685.
Briscoe, *Henry V. A.*, *John B.* **Peel**, and *Percy L.* **Robinson**, carbon sulphidoselenide, 56.
the effect of intensive drying on certain physical properties of benzene, 368.
the reactions of the halogens with carbon sulphidoselenide, 1048.
Briscoe, *Henry V. A.*, *John B.* **Peel**, and *John R.* **Rowlands**, the interaction of carbon tetrabromide with sulphur and selenium, 1766.
Briscoe, *Henry V. A.*, *John B.* **Peel**, and *George W.* **Young**, mercury compounds of thiophen and selenophen, 2589.
Briscoe, *Henry V. A.* See also *Leonard A.* **Sayce.**
Bruin, *Pieter*. See *Andreas* **Smits.**
Bryans, *Frank*, and *Frank L.* **Pyman**, the nitration of benzylpyridines and the oxidation of benzylpiperidines, 549.
Burch, *William J. N.* See *Robert H. A.* **Plimmer.**
Burgess, *Henry*. See *Gilbert T.* **Morgan.**
Burgess, *Stanley G.*, and *Harold* **Hunter**, investigations on the dependence of rotatory power on chemical constitution. Part XXXIV. Borotartaric acid, 2838.
Burkhardt, *George N.*, and *Harold* **Wood**, nitroarylsulphuric acids and their reduction products, 141.
Burstall, *Francis H.* See *Gilbert T.* **Morgan.**
Burton, *Harold*, mobile anion tautomerism. Part III. A comparison of the activation of three carbon anionotropic systems by alkyl and by aryl groups, 455.
Burton, *Harold*, and *Christopher K.* **Ingold**, the modes of addition to conjugated unsaturated systems. Part II. The reduction of conjugated unsaturated acids by metals dissolving in aqueous media, 2022.
Bury, *Charles R.* See *John* **Grindley.**

C.

Callow, *Robert K.*, and *John M.* **Gulland**, some phenanthrene derivatives, 2424.
Callow, *Robert K.*, *John M.* **Gulland**, and *Robert D.* **Haworth**, synthetical experiments on the aporphine alkaloids. Part V. Laurotetanine; syntheses of 2:3:6:7- and 3:4:6:7-tetramethoxyaporphines, 658.
synthetical experiments on the aporphine alkaloids. Part VI. *iso*Thebaine; attempted syntheses of 3:4:5-trimethoxyaporphine, 1444.
Callow, *Robert K.*, and *Edward* **Hope**, isatin anils. Part I. The isomerism of isatin-2-anil, 1191.
Callow, *Robert K.* See also *John M.* **Gulland.**
Campbell, *Alan N.*, the existence of liquid racemates, 1111.
Campbell, (*Miss*) *Ishbel G. M.* See *John* **Read.**
Carter, *John S.*, and *Charles R.* **Hoskins**, the solubility of iodine in solutions of halides, 580.
Carter, *Peter G.* See *John* **Read.**

Caspari, *William A.*, dimorphism in the aliphatic dicarboxylic acid series (azelaic acid), 2709.
Cavell, *Alexander C.* See *Edmund J.* **Bowen.**
Chakravarti, *Satyendra N.*, and *William H.* **Perkin**, *jun.*, a synthesis of *iso*pianic acid, 193.
synthesis of 3:10-dimethoxytetrahydroprotoberberine, 196.
Challenger, *Frederick*, and *Louis* **Klein**, the formation of *l*-malic acid from fumaric acid by *Aspergillus niger*, 1644.
Challenger, *Frederick*, *Louis* **Klein**, and *Thomas K.* **Walker**, the production of kojic acid from pentoses by *Aspergillus oryzæ*, 1498.
Challenger, *Frederick*, and *Arnold T.* **Peters**, the nitration of benzyl derivatives of certain phosphorus, arsenic, and antimony compounds, 2610.
Chapman. *A. Chaston*, on the individuality of humulene, 359.
Chapman, *Arthur W.*, a new method for preparing substituted diphenylamines, 569.
dynamic isomerism involving mobile hydrocarbon radicals. Part I. The triarylbenzenylamidines, 2133.
Chapman, *David L.*, and *Philip P.* **Grigg**, the mean life of the catalyst postulated in the photochemical union of chlorine and hydrogen, 2426.
Charlton, *William*. See *Cameron G.* **Anderson.**
Chattaway, *Frederick D.*, and *William G.* **Humphrey**, the action of *o*-phenylenediamines upon dihydroxytartaric acid, 645.
Chattaway, *Frederick D.*, and *Harry* **Irving**, the action of potassium cyanide on chloroaldehydes, 1038.
Chattaway, *Frederick D.*, and *Edwin G.* **Kellett**, compounds of the thioparaldehyde type derived from chloral, 2908.
Chattaway, *Frederick D.*, and *George D.* **Parkes**, nicotine tetrachloroiodide, 1314.
the estimation of nicotine, 2817.
Chatterjee, *Bibhucharan*, attempts to find new anti-malarials. Part IV. β-Benziminazolylethylamine and β-5(or 6)-ethoxybenziminazolylethylamine, 2965.
Child, *Reginald*, and *Frank L.* **Pyman**, bases containing two *iso*quinoline rings, 2010.
Chokshi, *Navnitlal M.* See *Oscar L.* **Brady.**
Clay, *Hubert*. See *Herbert H.* **Hodgson.**
Clemo, *George R.*, *Robert D.* **Haworth**, and *Eric* **Walton**, the constitution of santonin. Part I. The synthesis of *dl*-santonous acid, 2368.
Clemo, *George R.*, and *Richard* **Raper**, the lupin alkaloids. Part II., 1927.
Cobb, *John W.* See *F. J.* **Dent.**
Cohen, *Aaron*, and *Samuel* **Smiles**, a synthesis of *iso*naphthathioxin, 209.
Cooper, *Kenneth E.* See *Herbert H.* **Hodgson.**
Copisarow, *Maurice*, 2-substituted derivatives of *p*-cresol, 251.
salicylaldehyde and its methyl ether, 588.
Coulson, *Edward A.* See *Gilbert T.* **Morgan.**
Cowdrey, *Geoffrey W.* See *Arthur* **Fairbourne.**
Cox, *Alwyn B.* See *Rupert J.* **Best.**
Creedon, *Timothy V.* See *Joseph* **Reilly.**
Cullinane, *Nicholas M.*, and *David* **Philpott**, synthesis of some phenyl styryl ketones and related compounds, 1761.

D.

Dann, *Arthur T.*, the dinitration of *m*-dichlorobenzene, 2460.
Dann, *Arthur T.*, and *William* **Davies**, the reactions of nitrosulphonyl chlorides. Part I. The reaction of hydrazine hydrate with *o*-nitrosulphonyl chlorides, 1050.
Darbari, *Nanda L.* See *Joti S.* **Aggarwal.**
Davies, *John S. H.* See *John W. C.* **Phillips.**
Davies, *Walter C.*, and *William J.* **Jones**, tertiary phosphines containing the *n*-butyl radical, 33.
Davies, *Walter C.*, *Percy L.* **Pearse**, and *William J.* **Jones**, tertiary phosphines containing the higher alkyl radicals, 1262.
Davies, *William*, and *Ralph A. E.* **Down**, the preparation of *p*-azoxyanisole and derivatives, 586.
Davies, *William*. See also *Arthur T.* **Dann.**
Dawson, *Harry M.*, *Charles R.* **Hoskins**, and *Jesse E.* **Smith**, acid and salt effects in catalysed reactions. Part XXI. The catalytic effects associated with oxalic acid in the first and second stages of dissociation, 1884.
Dawson, *Harry M.*, and *William* **Lowson**, acid and salt effects in catalysed reactions. Part XIX. The catalytic activity of chloroacetic acid in the hydrolysis of ethyl acetate, 393.

Dawson, *Harry M.*, and *William* **Lowson**, acid and salt effects in catalysed reactions. Part XX. The ionisation of acids in salt solutions, 1217.

Dawson, *Harry M.*, and *Jesse E.* **Smith**, acid and salt effects in catalysed reactions. Part XXII. The influence of inert salts on the secondary dissociation of dibasic acids, 2530.

Day, *James N. E.* See *Oscar L.* **Brady**.

Dent, *F. J.*, and *John W.* **Cobb**, the equilibrium $CO_2 + C \rightleftharpoons 2CO$, 1903.

Deulofeu, *Venancio*, formation of *l*-threose, 2458.

Deulofeu, *Venancio*, and *Raúl J.* **Selva**, the degradation of *l*-arabinose, 225.

Dickins, *Alfred H.*, *Wilfred E.* **Hugh**, and *George A. R.* **Kon**, the chemistry of the three-carbon system. Part XX. *cyclo*Pentylideneacetone and *cyclo*pentylidenemethyl ethyl ketone, 572.

Dickinson, *Robert*, the influence of colloids on the precipitation of salts, 358.

Dickinson, *William P.*, and *Philip G.* **Marshall**, the isomeric monohydroxyphenylalanines. Part I. A new synthesis of the *o*- and *m*-isomerides and a comparison of their properties with those of tyrosine, 1495.

Dickinson, *William P.* See also *Dalziel L.* **Hammick**.

Donnan, *Frederick G.*, physical chemistry in the science of biology, 1387.

Donnelly, *Reginald P.*, the combination of hydrogen and oxygen on the surface of nickel, 2438.

Donnelly, *Reginald P.*, and *Cyril N.* **Hinshelwood**, the combination of hydrogen and oxygen on the surface of platinum, 1727.

Doran, *William*. See *Atul C.* **Bose**.

Down, *Ralph A. R.* See *William* **Davies**.

Drew, *Harry D. K.*, non-existence of isomerism among the dialkyltelluronium dihalides, 560.

Drew, *Harry D. K.*, and *Charles R.* **Porter**, the micro-estimation of selenium and tellurium in organic compounds, 2091.

Driscoll, *John O'L.* See *Graham C.* **Gibson**.

Drumm, *Peter J.* See *Joseph* **Reilly**.

Duff, *James C.*, the solubilities of *o*- and *p*-nitrophenols in aqueous methylalcoholic solutions at 25° and 40°; formation of β-*p*-nitrophenol, 2789.

Duff, *James C.*, and *Edwin J.* **Bills**, basic chlorides and addition compounds from metallic chlorides and hexamethylenetetramine; exceptional behaviour of nickel chloride, 411.

Dunn, *John S.*, the oxidation of tungsten: evidence for the complexity of tungstic oxide, WO_3, 1149.

Dyson, *George M.*, *Robert F.* **Hunter**, and *Charles* **Soyka**, aminobenzthiazoles. Part XI. The synthesis of 5:4′-disubstituted 1-anilinobenzthiazoles from nuclear-substituted thiocarbanilides, 458.

E.

Eastwood, (*Miss*) *Frances M.* See *Wilson* **Baker**.

Eccott, *Eustace N.*, and *Reginald P.* **Linstead**, investigations of the lower olefinic acids. Part I. *n*-Hexenoic acids, 2153.

Elson, *Leslie A.*, *Charles S.* **Gibson**, and *John D. A.* **Johnson**, 10-chloro-5:10-dihydrophenarsazine and its derivatives. Part VIII. The bromination of 10-chloro-5:10-dihydrophenarsazine and some of its derivatives, 1080.

monohalogenomononitrotoluenes; arsenical compounds derived from 3-bromo-4-nitrotoluene, 2735.

Elson, *Leslie A.*, *Charles S.* **Gibson**, and *John L.* **Simonsen**, the oxidation of α-terpinene with benzoylhydroperoxide, 2732.

Emeléus, *Harry J.*, the light emission from the phosphorescent flames of ether, acetaldehyde, propaldehyde, and hexane, 1733.

the phosphorescent flame of arsenic, 1846.

Evans, *Ulick R.*, the passivity of metals. Part II. The breakdown of the protective film and the origin of corrosion currents, 92.

the mechanism of corrosion, 111.

Evans, *Ulick R.*, and *John* **Stockdale**, the passivity of metals. Part III. The quantity and distribution of the superficial oxide, 2651.

Everett, *John G.*, trypanocidal activity and chemical constitution. Part I. New sulphur derivatives of aromatic organic arsenicals, 670.

Exell, *H. C.* See *G. C.* **Holliday**.

F.

Fairbourne, *Arthur*, the partial esterification of polyhydric alcohols. Part VIII. The proposed standards of reference in work on the configuration of glycerol derivatives, 1151.

Fairbourne, *Arthur*, the partial esterification of polyhydric alcohols. Part IX. The discovery of the first true β-ether of glycerol, 2232.

Fairbourne, *Arthur*, and *Geoffrey W.* **Cowdrey**, the partial esterification of polyhydric alcohols. Part VII. The unreliability of proofs of the structure of disubstituted glycerols, 129.

Farmer, *Ernest H.*, and *William D.* **Scott**, properties of conjugated compounds. Part VI. The dibromination products of cyclic butadienes, 172.

Farmer, *Ernest H.*, and *Frank L.* **Warren**, properties of conjugated compounds. Part VII. The additive formation of *cyclo*hexenes, 897.

Fenton, *Geoffrey W.*, and *Christopher K.* **Ingold**, influence of poles and polar linkings on the course pursued by elimination reactions. Part IV. Further experiments on the olefinic degradation of sulphones, 2338.

influence of poles and polar linkings on the course pursued by elimination reactions. Part V. The mechanism of thermal decomposition of quaternary phosphonium hydroxides, 2342.

Fisher, (*Miss*) *Nellie I.* See *Harry L.* **Riley**.

Flürscheim, *Bernhard*, and *Eric L.* **Holmes**, hexa-aminobenzene, 330.

Friend, *John A. N.*, the hydrates of lithium sulphate and their solubility in water between −16° and +103°, 2330.

the solubility of potassium selenate in water between 0° and 100°, 2782.

Friend, *John A. N.*, *John E.* **Townley**, and *Reece H.* **Vallance**, the solubility of sodium ferrocyanide in water between 0° and 104°, 2326.

G.

Gane, *Richard*, and *Christopher K.* **Ingold**, electrometric titration curves of dibasic acids. Part III. Substituted malonic acids, 1691.

Garner, *Frederick B.*, and *Samuel* **Sugden**, the parachor and chemical constitution. Part XIII. Some compounds of titanium and tin, 1298.

Garner, *William E.*, and *A. M.* **King**, alternation in the heats of crystallisation of the normal monobasic fatty acids. Part IV., 1849.

Garner, *William E.*, and *F.* **Roffey**, effect of the addition of hydrogen and water on the radiation emitted from the carbon monoxide flame, 1123.

Ghosh, *Bhupendra N.*, the effect of proteins on the coagulation of bentonite suspensions by electrolytes, 2285.

the action of sodium hydroxide on stannic oxide sol. Parts I. and II., 2290, 2298.

scattering of light by stannic oxide sols, 2526.

the electrokinetic potential and its relation to the rate of coagulation of colloids. Part I., 2693.

Gibson, *Charles S.*, and *John D. A.* **Johnson**, 10-chloro-5:10-dihydrophenarsazine and its derivatives. Part VII. The synthesis of the 1-methyl and 3-methyl homologues, 767.

10-chloro-5:10-dihydrophenarsazine and its derivatives. Part IX. The synthesis of nitromethyldiphenylamine-6′-arsinic acids and their conversion into nitromethyl derivatives of 10-chloro-5:10-dihydrophenarsazine; constitution of 10-chloro-5:10-dihydrophenarsazine, 1229.

10-chloro-5:10-dihydrophenarsazine and its derivatives. Part X. The 1- and/or 3-methyl derivatives; the condensation of arsenious chloride and phenyl-*m*-tolylamine, 1473.

substances of the phenarsazine type containing the acenaphthene nucleus, 1621.

10-chloro-5:10-dihydrophenarsazine and its derivatives. Part XI. Mono-, di-, and tri-methyl derivatives, 2743.

Gibson, *Charles S.*, and *Barnett* **Levin**, nor-*d*-ψ-ephedrine, a convenient base for the resolution of externally compensated acids; resolution of *dl*-benzenesulphonylalanine and of *dl*-*N*-phenylalanineamide-4-arsinic acid, 2754.

compounds of the tryparsamide type. Part II. Resolution of *dl*-*N*-2-methylphenylalanineamide-4-arsinic acid, 2759.

Gibson, *Charles S.*, *John D. A.* **Johnson**, and *Barnett* **Levin**, compounds of the tryparsamide type. Part I. Resolution of *N*-phenylalanine-4-arsinic acid and of its amide, 479.

Gibson, *Charles S.*, and *John L.* **Simonsen**, Indian turpentine from *Pinus longifolia*, Roxb. Part V. The oxidation of *d*-Δ^3-carene with Beckmann's chromic acid mixture, 305.

the oxidation of *d*-Δ^4-carene with Beckmann's chromic acid mixture, 909.

the constitution of Guareschi's cyanobutadiene acids; an attempt to synthesise β-*iso*propylglutaconic acid, 1074.

Gibson, *Charles S.* See also *Leslie A.* **Elson.**

Gibson, *Graham C.*, *John O'L.* **Driscoll**, and *William J.* **Jones**, equilibrium between alcohols and salts. Part III., 1440.

Gilbert, *Frank L.* See *Thomas M.* **Lowry.**

Gilbert, *Lionel F.*, and (*Miss*) *Miriam* **Levi**, the boric acids, 527.

Glass, *John V. S.*, and *Cyril N.* **Hinshelwood**, the unimolecular decomposition of some ethers in the gaseous state, 1804.

homogeneous catalysis of a gaseous reaction; kinetics of the catalytic decomposition of *iso*propyl ether, 1815.

Glasstone, *Samuel*, studies of electrolytic polarisation. Part VII. Complex cyanides: (*a*) silver, 690.

studies of electrolytic polarisation. Part VIII. Complex cyanides: (*b*) copper, 702.

Goodway, *Norman F.* See *Edward de B.* **Barnett.**

Graymore, *John*, the action of aromatic acid chlorides on vinyldiacetoneamine, 587.

Gregory, *Cecil E.* See *Herbert B.* **Watson.**

Grey, *Egerton C.*, the iodometric estimation of iron, 35.

Grigg, *Philip P.* See *David L.* **Chapman.**

Grindley, *John*, and *Charles R.* **Bury**, the densities of butyric acid–water mixtures, 679.

Groves, *Leslie G.*, and *Eustace E.* **Turner**, the nitration of 4-chloro-4′-bromobenzophenone and -diphenylsulphone, and the attempted nitration of 4-chloro-4′-bromodiphenyl, 509.

Groves, *Leslie G.*, *Eustace E.* **Turner**, and (*Miss*) *Gladys I.* **Sharp**, the scission of diaryl ethers and related compounds by means of piperidine. Part II. The nitration of 2:4:4′-trichlorodiphenyl ether, and of 2:4-dichlorophenyl *p*-toluenesulphonate and benzoate, 512.

Gull, *Herbert C.*, and *Eustace E.* **Turner**, orientation effects in the diphenyl series. Part VII. The effect of substituents in one nucleus on the ratio of ortho: para nitration in the other; the nitration of 2- and 4-nitro- and of 2:4- and 2:4′-dinitro-diphenyl and of diphenyl-4-carboxylic acid, 491.

Gulland, *John M.*, *Robert D.* **Haworth**, *Cyril J.* **Virden**, and *Robert K.* **Callow**, synthetical experiments on the aporphine alkaloids. Part VII. Attempted synthesis of *apo*morphine dimethyl ether, 1666.

Gulland, *John M.*, *Robert* **Robinson**, *James* **Scott**, and *Sidney* **Thornley**, 6:7-dimethoxyisatin, 5:6-methylenedioxyisatin and the nuclear degradation of 3:4-methylenedioxyquindoline, 2924.

Gulland, *John M.*, and *Cyril J.* **Virden**, anhydro-compounds derived from 2-nitro-3:4-dimethoxyphenylacetonitrile and certain ψ-bases, 1791.

Gulland, *John M.* See also *Robert K.* **Callow.**

H.

Hague, *Ernest N.*, and *Richard V.* **Wheeler** [with *Thomas M.* **Lowry**], the mechanism of thermal decomposition of the normal paraffins, 378.

Hamer, (*Miss*) *Frances M.*, cyanine dyes from quaternary salts of methyl-α- and -β-naphthathiazoles, 2598.

Hammick, *Dalziel L.*, and *Leslie W.* **Andrew**, the determination of the parachors of substances in solution, 754.

Hammick, *Dalziel L.*, and *William P.* **Dickinson**, preparation of quinaldinyl chloride and ethyl quinaldinyl-acetoacetate, 214.

Hampton, *Horace A.*, *Walter N.* **Haworth**, and *Edmund L.* **Hirst**, polysaccharides. Part IV. The constitution of xylan, 1739.

Hardacre, *Richard W.*, and *Arthur G.* **Perkin**, reduction products of the hydroxyanthraquinones. Part X., 180.

Hardy, *Douglas V. N.*, the introduction of the triphenylmethyl group into phenols. Part II., 1000.

an improved calcium chloride tube, 1108.

Harington, *Charles R.*, and *William* **McCartney**, synthesis of an isomeride of thyroxine, and of related compounds, 892.

Hatt, *Harold H.*, the production of pinacols in the reaction between a carboxylic ester and a Grignard reagent, 1623.

the formation of triphenylmethylphosphinic acid from triphenylmethoxyphosphorus dichloride. Part II. The mechanism of the reaction, 2412.

Haworth, *Robert D.*, the constitution of linolic acid, 1456.

Haworth, *Robert D.* See also *Robert K.* **Callow**, *George R.* **Clemo**, and *John M.* **Gulland**.

Haworth, *Walter N.*, *Edmund L.* **Hirst**, and *Ernest J.* **Miller**, the development of a novel form of stereoisomerism in the sugar series. Part I. The third variety of triacetyl methylrhamnoside, 2469.

Haworth, *Walter N.*, *Edmund L.* **Hirst**, and *John I.* **Webb**, polysaccharides. Part V. Glycogen, 2479.

Haworth, *Walter N.*, and *Charles W.* **Long**, the conversion of tetramethyl γ- and δ-gluconolactones into the corresponding mannonolactones, and of the trimethyl γ- and δ-xylonolactones into the corresponding lyxonolactones, 345.

Haworth, *Walter N.*, and *Stanley* **Peat**, synthesis of *l*-2:3:4:6-tetramethyl δ-gluconolactone and of *l*-2:3:4:6-tetramethyl δ-mannonolactone from *l*-2:3:5-trimethyl arabofuranose, 350.

Haworth, *Walter N.*, and *Charles R.* **Porter**, isolation of crystalline α- and β-ethylglucofuranosides (γ-ethylglucosides) and other crystalline derivatives of glucofuranose, 2796.

Haworth, *Walter N.* See also *Cameron G.* **Anderson**, and *Horace A.* **Hampton**.

Hay, (*Miss*) *Kathleen.* See *James W.* **McBain**.

Haythornthwaite, *Alan*, the chemotherapy of some bromine derivatives of phenylarsinic acids and arsenobenzenes, 1011.

Heap, *Tom*, and *Robert* **Robinson**, anthoxanthins. Part IX. Syringetin, 67.

Heathcoat, *Frederick.* See *George M.* **Bennett**.

Hedges, *Ernest S.*, an enquiry into the cause of periodic phenomena in electrolysis, 1028.

periodic structures from interacting gases, 1848.

the formation of periodic structures by salting-out and by coagulation, 2779.

Heilbron, *Isidor M.*, and *Francis* **Irving**, the intermolecular condensation of styryl ketones. Part III. Further examples of the ready formation of bis-(styryl ketones), 931.

styrylpyrylium salts. Part XI. The determination of the reactive group in ketones of the type $CH_3 \cdot CO \cdot CH_2R$ by means of the benzo-β-naphtha-*spiro*pyran colour change, 936.

Heilbron, *Isidor M.*, *Frank* **Johnstone**, and *Frank S.* **Spring**, studies in the sterol group. Part VI. Dihydroergosterol and the formation of isomerides, 2248.

Heilbron, *Isidor M.*, *William M.* **Owens**, and *Ian A.* **Simpson**, the unsaponifiable matter from the oils of elasmobranch fish. Part V. The constitution of squalene as deduced from its degradation products, 873.

Heilbron, *Isidor M.*, and *Wilfred A.* **Sexton**, studies in the sterol group. Part III. The acetylation and catalytic hydrogenation of ergosterol, 921.

studies in the sterol group. Part VII. preliminary note on the isolation of zymosterol, 2255.

Heilbron, *Isidor M.*, *Wilfred A.* **Sexton**, and *Frank S.* **Spring**, studies in the sterol group. Part IV. The existence of isomeric ergosterols, 926.

Heilbron, *Isidor M.*, and *Frank S.* **Spring**, studies in the sterol group. Part VIII. The reactions of *iso*ergosterol, 2807.

Heilbron, *Isidor M.*, and *Albert* **Thompson**, the unsaponifiable matter from the oils of elasmobranch fish. Part VI. The constitution of squalene as deduced from a study of the decahydrosqualenes, 883.

Henderson, *George G.*, *Robert O. O.* **McCrone**, and *John M.* **Robertson**, the chemistry of the caryophyllene series. Part II. Clovene and *iso*clovene, 1368.

Henderson, *Stanley T.*, the quinoxaline synthesis: some derivatives of 2:3-dimethylquinoxaline, 466.

Henley, *William J. R.*, and *Samuel* **Sugden**, the parachor and chemical constitution. Part XI. Arsenic and selenium compounds, 1058.

Hepburn, *Jack R. I.*, the formation of Liesegang rings as a periodic coagulation phenomenon, 213.

Hickinbottom, *Wilfred J.*, glucosides. Part II. The preparation of α-glucosides from β-glucosyl chlorides, 1676.

Hill, *Douglas W.*, and *Frank L.* **Pyman**, the constitution of the glycerophosphates, 2236.

Hinkel, *Leonard E.*, and *William R.* **Madel**, substituted aromatic aldehydes in Hantzsch's pyridine condensation. Part I. Methoxy-, chloro-, and hydroxy-benzaldehydes, 750.

Hinshelwood, *Cyril N.* See *Reginald P.* **Donnelly**, and *John V. S.* **Glass**.

Hirst, *Edmund L.* See *John* **Avery**, *Horace A.* **Hampton**, and *Walter N.* **Haworth**.

Hobson, *Ralph P.*, a micro-method for determining semicarbazones and its application to the analysis of ketones, 1384.

Hodgson, *Herbert H.*, and *Hubert* **Clay**, the nitrosation of phenols. Part VII. Resorcinol monomethyl ether and *m*-cresol, 2775.

Hodgson, *Herbert H.*, and *Kenneth E.* **Cooper**, colour and constitution. Part IV. The absorption spectra of nitrophenylhydrazones in alcohol and in alcoholic potassium hydroxide, 231.

Hodgson, *Herbert H.*, and *Thomas A.* **Jenkinson**, the influence of substituents on the Reimer–Tiemann reaction. Parts I. and II., 469, 1639.

Hodgson, *Herbert H.*, and *Arnold* **Kershaw**, the nitrosation of phenols. Part VI. Further study of the nitrosation of *m*-chlorophenol, 1553. halogenation of anisole derivatives, 2917.

Hodgson, *Herbert H.*, and *Joseph* **Nixon**, the Reimer–Tiemann reaction with *m*-fluorophenol and the nitration of 4-fluoro-2-hydroxy- and 2-fluoro-4-hydroxy-benzaldehydes, 1632. the direct dibromination of *m*-bromophenol, 2424.

Holliday, *G. C.*, and *H. C.* **Exell**, the thermal decomposition of methane. Part I. Decomposition in silica bulbs, 1066.

Holmes, *Eric L.* See *Bernhard* **Flürscheim**.

Holroyd, *Ronald*, and *Richard V.* **Wheeler**, studies in the composition of coal; plant entities as oil-yielding constituents, 633.

Hope, *Edward*. See *Robert K.* **Callow**.

Hoskins, *Charles R.* See *John S.* **Carter**, and *Harry M.* **Dawson**.

Houssa, *Armand J. H.*, *Joseph* **Kenyon**, and *Henry* **Phillips**, the relative configurations of *d*-β-octanol and its dextrorotatory halides; the interconversion of the optically active β-octanols by a new method, 1700.

Houssa, *Armand J. H.*, and *Henry* **Phillips**, some reactions of *d*-β-octyl chlorocarbonate of interest from the standpoint of the Walden inversion, 2510.

Howell, *Owen R.*, molecular structure in solution. Part IV. The densities, viscosities, and electrical conductivities of aqueous solutions of cobalt chloride and hydrochloric acid at different temperatures, 162.

Howells, *William J.*, the binary system carbamide–ammonium nitrate; molecular association in each component, 910.

Hugh, *Wilfred E.*, *George A. R.* **Kon**, and *Thomas* **Mitchell**, the chemistry of the three-carbon system. Part XXI. Some *cyclo*heptane compounds, 1435.

Hugh, *Wilfred E.* See also *Alfred H.* **Dickins**.

Hughes, *Edward D.*, and *Herbert B.* **Watson**, the reaction of bromine with aliphatic acids. Part III. α- and γ-Ketonic acids, 1945.

Hughes, *Owen L.*, and *Thomas H.* **Mead**, the solubility of sodium thiocyanate in water and in organic solvents, 2282.

Hughesdon, *Reginald S.* See *John* **Read**.

Hulton, *Henry F. E.* See *Julian L.* **Baker**.

Humphrey, *William G.* See *Frederick D.* **Chattaway**.

Humphreys, *Cecil W.* See *James W.* **McBain**.

Hunter, *Harold.* See *Stanley G.* **Burgess**.

Hunter, *Robert F.*, and *William E.* **Pride**, aminobenzthiazoles. Part XII. The mobility of 1-amino-3:5-dimethylbenzthiazole; a case of complete reactivity in the aminothiazole form, 943.

Hunter, *Robert F.* See also *George M.* **Dyson**.

Hurtley, *William R. H.*, replacement of halogen in *ortho*bromobenzoic acid, 1870.

I.

Ingham, *John W.*, the apparent hydration of ions. Part III. The densities and viscosities of saturated solutions of ammonium chloride in hydrochloric acid, 2059.

Ingold, *Christopher K.*, and *Joe A.* **Jessop**, influence of poles and polar linkings on the course pursued by elimination reactions. Part VI. 1:1-Elimination in the degradation of quaternary ammonium hydroxides, 2357.

Ingold, *Christopher K.*, and *Eugene* **Rothstein**, influence of poles and polar linkings on tautomerism in the simple three-carbon system. Part I. Experiments illustrating prototropy and anionotropy in trialkylpropenylammonium derivatives, 8.

Ingold, *Christopher K.*, and *Charles W.* **Shoppee**, the mobility of symmetrical triad (prototropic) systems. Part IV. Mobility in the simple three-carbon system terminated by aryl groups, 447.

the mobility of symmetrical triad (prototropic) systems. Part V. A new triad system (methyleneazomethine), 1199.

Ingold, *Christopher K.* See also *John W.* **Baker**, *Harold* **Burton**, *Geoffrey W.* **Fenton**, and *Richard* **Gane**.

Irving, *Francis*, styrylpyrylium salts. Part XII. *spiro*Pyrans derived from 9-methyl- and 9 ethyl-xanthylium salts, 1093.

Irving, *Francis*. See also *Isidor M.* **Heilbron**.

Irving, *Harry*. See *Frederick D.* **Chattaway**.

Iyengar, *Mysore S.* See *Mysore G. S.* **Rao**.

J.

Jackson, (*Miss*) *Jane H.* See *Ernest W.* **McClelland**.

Jackson, *Kenneth S.*, *Alexander S.* **Russell**, and *Jack L.* **Merrill**, the electrolytic deposition of tungsten at a mercury cathode, 2394.

James, *Robert G.* See *Frederick G.* **Angell**.

Jenkinson, *Thomas A.* See *Herbert H.* **Hodgson**.

Jessop, *Gilbert*. See *Thomas M.* **Lowry**.

Jessop, *Joe A.* See *Christopher K.* **Ingold**.

Johnson, *John D. A.* See *Leslie A.* **Elson**, and *Charles S.* **Gibson**.

Johnstone, *Frank*. See *Isidor M.* **Heilbron**.

Jones, *Brynmor*. See *Alan E.* **Bradfield**.

Jones, *Cyril W. H.*, the decomposition of methane. Part I., 419.

Jones, *Cyril W. H.*, *William J.* **Price**, and *Harry W.* **Webb**, nitrosylsulphuric acid. Part II., 312.

Jones, *David C.*, the systems *n*-butyl alcohol–water and *n*-butyl alcohol–acetone–water, 799.

Jones, *William J.* See *Walter C.* **Davies**, and *Graham C.* **Gibson**.

Jost, *William*. See *Max* **Bodenstein**.

Jung, *Gerhard*. See *Max* **Bodenstein**.

K.

Kandiah, *Arupillai*, and *Reginald P.* **Linstead**, the chemistry of the three-carbon system. Part XXII. The preparation and interconversion of isomeric unsaturated nitriles, 2139.

Kawakami, *Yasota*. See *James W.* **McBain**.

Kay, *Herbert D.*, the enzymic synthesis of β-hydroxyethyl dihydrogen phosphate, 524.

Kellett, *Edwin G.* See *Frederick D.* **Chattaway**.

Kentish, *William S.*, *N*-methyl derivatives of 2-phenylnaphthylene-1:3-diamine, 1169.

Kenyon, *Joseph*. See *Armand J. H.* **Houssa**.

Kermack, *William O.*, and *James F.* **Smith**, preparation of *o*-nitroacetophenone, 814.

Kerr, *Robert N.*, the influence of the polarity of the solvent on the velocity of a reaction, 239.

Kershaw, *Arnold*. See *Herbert H.* **Hodgson**.

King, *A. M.* See *William E.* **Garner**.

King, *Albert T.*, constitutional influences on the conversion of azonaphthols into their azo-sulphites and their bearing on the structure of α- and β-naphthol, 601.

King, *Harold*, diethyl ether. Part I. The products of its autoxidation, 738.

King, *Harold*. See also *Winston K.* **Anslow**.

King, *Herbert J. S.*, researches on ammines. Part III. Derivatives of cupric nitrite, 2593.

Kipping, *Frederic B.*, the stereoisomeric 2:3:5:6-tetramethylpiperazines. Part I., 2889.

Kipping, *Frederic S.*, and *Arthur G.* **Murray**, organic derivatives of silicon. Part XXXVIII. The formation of tri- and tetra-phenylsilicane and complex synthetical products from octaphenyl-*cyclo*silicotetrane, 360.

Kipping, *Frederic S.*, *Arthur G.* **Murray**, and *John G.* **Maltby**, organic derivatives of silicon. Part XL. Attempts to prepare unsaturated compounds from phenylsilicon trichloride, 1180.

Kipping, *Frederic S.* See also *Arthur K.* **Steele**, and *Reginald A.* **Thompson**.

Klein, *Louis*. See *Frederick* **Challenger**.

Kon, *Georgs A. R.*, and *Reginald P.* **Linstead**, catalytic influences in three-carbon tautomerism. Part I. Sodium alkyloxides, 1269.

Kon, *George A. R.* See also *Alfred H.* **Dickins**, and *Wilfred E.* **Hugh.**

L.

Lange, *Wilhelmus de.* See *Roland H.* **Purcell.**
Lawson, *Alexander.* See *Thomas S.* **Patterson.**
Lebedev, *Serguey V.*, and *Anastasia O.* **Yakubchik**, the catalytic hydrogenation of different types of unsaturated compounds. Part IV. The hydrogenation of conjugated systems: piperic acid, 220.
Le Fèvre, *Raymond J. W.*, corrections in the chemistry of diphenyl derivatives of the "Kaufler" type, and the formation of dibenzoctdiazines, 733.
the orienting influence of oxonium oxygen; the nitration of 2-phenylbenzopyrylium perchlorate and ferrichloride, 2771.
Legg, *Vernon H.*, and *Richard V.* **Wheeler**, plant cuticles. Part I. (cont.). Modern plant cuticles, 2444.
plant cuticles. Part II. Fossil plant cuticles, 2449.
Lesslie, (*Miss*) *Mary S.*, and *Eustace E.* **Turner**, the isomerism of derivatives of 2-phenylnaphthylene-1:3-diamine, 1512.
Levi, (*Miss*) *Miriam.* See *Lionel F.* **Gilbert.**
Levin, *Barnett.* See *Charles S.* **Gibson.**
Lewis, *Douglas R.* See *Donald H.* **Bangham.**
Lewis, *J. Stanley*, low-temperature oxidation of hydrocarbons. Part I. The pressure–temperature curves of amylene–oxygen mixtures, 759.
Lih, *Kun-Hou.* See *Charles R.* **Bailey.**
Linstead, *Reginald P.*, the chemistry of the three-carbon system. Part XXIII. The influence of substituent groups on the tautomeric change, 2498.
Linstead, *Reginald P.* See also *Eustace N.* **Eccott**, *Arupillai* **Kandiah**, and *George A. R.* **Kon.**
Lloyd, *William V.* See *Thomas M.* **Lowry.**
Long, *Charles W.* See *Walter N.* **Haworth.**
Lowry, *Thomas M.*, the rotatory dispersion of organic compounds. Part XVIII. Potassium boro-tartrate, 2853.
the rotatory dispersion of organic compounds. Part XIX. The validity of Drude's equation, 2858.
Lowry, *Thomas M.*, and *Frank L.* **Gilbert**, studies of valency. Part XIII. Further experiments on the molecular structure of the quadrivalent derivatives of tellurium, 2076.
studies of valency. Part XIV. An optically active telluronium salt: phenyl-*p*-tolylmethyltelluronium iodide, 2867.
Lowry, *Thomas M.*, and *Gilbert* **Jessop**, the properties of the chlorides of sulphur. Part II. Molecular extinction coefficients, 1421.
Lowry, *Thomas M.*, and *William V.* **Lloyd**, the properties of nicotine and its derivatives. Part I. Molecular extinction coefficients, 1376.
the properties of nicotine and its derivatives. Part II. Optical rotatory power and rotatory dispersion, 1771.
Lowry, *Thomas M.* See also *Ernest N.* **Hague.**
Lowson, *William.* See *Harry M.* **Dawson.**
Lunt, *Robert W.*, and *Leonard S.* **Mumford**, the decomposition of carbon monoxide in the silent electric discharge. Part III., 1711.
Lyche, *Ralph T.* See *Claus N.* **Riiber.**

M.

Mabbott, *Ernest E.*, obituary notice of, 2969.
McAulay, *A. L.*, and *S. H.* **Bastow**, the electrical behaviour of surfaces of corroding iron, 85.
McBain, *James W.*, and (*Miss*) *Kathleen* **Hay**, the alkalinity of soap solutions as measured by indicators, 589.
McBain, *James W.*, *Cecil W.* **Humphreys**, and *Yasota* **Kawakami**, the rates of saponification of various commercial oils, fats, and waxes and pure triglycerides by aqueous alkali, 2185.
McCartney, *William.* See *Charles R.* **Harington.**
McClelland, *Ernest W.*, the formation of thionaphthindole, 1588.
McClelland, *Ernest W.*, and *Leonard A.* **Warren**, the formation and stability of the 2-*o*-thiophenyl-4:5-dihydroglyoxalines, 2621.
McClelland, *Ernest W.*, *Leonard A.* **Warren**, and (*Miss*) *Jane H.* **Jackson**, the formation and stability of the 2-thio-1:2-dihydrobenz*iso*thiazoles, 1582.

McCrone, *Robert O. O.* See *George G.* **Henderson.**

MacGillivray, *W. Eoghan.* See *H. Gordon* **Rule.**

McGregor, *Thomas.* See *Robert* **Wright.**

Mackenzie, *John E.*, and *James P.* **Quin**, compounds of hydroxides of the alkaline earths with sugars, 951.

Mackie, *Alexander.* See *John B.* **Shoesmith.**

Macmaster, *James C.*, *Alfred* **Russell**, and *Alfred W.* **Stewart**, Tesla-luminescence spectra. Part VI. Some phenolic compounds and their ethers, 2401.

Macmillan, *William G.*, and *Thomas H.* **Reade**, elimination of the nitroso-group from nitrosoamines, 585.

the formation of *N*-nitrosoamines from tertiary amines. Part I. The conversion of derivatives of dimethylaniline by nitrous acid into the corresponding nitrosoamines and monomethylanilines, 2863.

Madden, *Denis.* See *Joseph* **Reilly.**

Madel, *William R.* See *Leonard E.* **Hinkel.**

Maitland, *Peter*, and *Stanley H.* **Tucker**, the condensation of fluorene with acetone. Part I. The action of magnesium 9-fluorenyl bromide on (*a*) acetone, (*b*) diacetone alcohol; the question of two forms of 9-*iso*propylidenefluorene, 2559.

Maltby, *John G.*, the classification of the sugars. Part II., 2769.

Maltby, *John G.* See also *Frederic S.* **Kipping.**

Mann, *Frederick G.*, the cobaltic derivatives of $\beta\beta'\beta''$-triaminotriethylamine, 409.

the stability of complex metallic salts, 651.

Mann, *Frederick G.* See also *Ernest V.* **Bell.**

Manning, *Alexander B.*, the determination of unsaturated and aromatic hydrocarbons in light oils and motor spirits, 1014.

Marsh, *Joseph K.*, the order of fractionation of rare-earth bromates, and a search for illinium, 2387.

Marshall, *Philip G.* See *William P.* **Dickinson.**

Mason, *Frederick A.*, the action of phosphoric oxide on β-anilinobutyracetal, 1560.

Matthews, *Frances E.*, obituary notice of, 2970.

Maxwell, *George B.*, and *Richard V.* **Wheeler**, the inflammation of mixtures of the olefines and air in a closed spherical vessel, 245.

Mayes, *Horace A.*, and *Eustace E.* **Turner**, the nitration of phenylcyclohexane and of its *p*-halogeno-derivatives, 500.

Mead, *Thomas H.* See *Owen L.* **Hughes.**

Menon, *Kottiazath N.*, and *John L.* **Simonsen**, the electrolytic reduction of the imides of cyclic acids (preliminary note), 302.

Merrill, *Jack L.*, and *Alexander S.* **Russell**, the electrolytic deposition of molybdenum at a mercury cathode, 2389.

Merrill, *Jack L.* See also *Kenneth S.* **Jackson.**

Miles, *John B.* See *H. Gordon* **Rule.**

Miller, (*Miss*) *Christina C.*, the slow oxidation of phosphorus. Part I. The inhibition of the glow of phosphorus by phosphorous oxide, 1823.

the slow oxidation of phosphorus. Part II. The oxidation products of phosphorus and phosphorous oxide, 1829.

Miller, *Ernest J.* See *Walter N.* **Haworth.**

Millott, *John O'N.* See *Edmund B. R.* **Prideaux.**

Minsaas, *Josef.* See *Claus N.* **Riiber.**

Mitchell, *Thomas.* See *Wilfred E.* **Hugh.**

Mitchell, *Vivian E. S.*, and *James R.* **Partington**, the influence of ethyl ether and of dimethylpyrone on the availability of hydrogen chloride in alcoholic solution, 1562.

Moir, *James*, obituary notice of, 2972.

Monypeny, (*Miss*) *Mary W.*, and *Alfred* **Russell**, the fluorescence spectra of the vapours of fluorobenzene and *p*-fluorotoluene, 2436.

Moore, *Tom S.*, (*Miss*) *Mary* **Boyle**, and (*Miss*) *Vera M.* **Thorn**, *N*-substituted derivatives of piperazine and ethylenediamine. Part I. The preparation of *N*-monosubstituted derivatives, 39.

Morgan, *Gilbert T.*, and *Henry* **Burgess**, interaction of tellurium tetrachloride and dimethylaniline, 1103.

interactions of basic tellurium chloride and the cresols, 2214.

Morgan, *Gilbert T.*, and *Francis H.* **Burstall**, heterocyclic systems containing selenium. Part I. *cyclo*Selenobutane (tetrahydroselenophen), 1096.

heterocyclic systems containing selenium. Part II. *cyclo*Selenopentane, 2197.

Morgan, *Gilbert T.*, and *Edward A.* **Coulson**, synthesis of anthracene homologues. Part I. 2:6- and 2:7-Dimethylanthracenes, 2203.
synthesis of anthracene homologues. Part II. 2:3:6-Trimethylanthracene, 2551.
Mosses, *Arthur N.* See *George M.* **Bennett**.
Mumford, *Leonard S.* See *Robert W.* **Lunt**.
Mumford, *Stanley A.*, and *John W. C.* **Phillips**, the evaluation and interpretation of parachors, 2112.
Mumford, *Stanley A.* See also *John W. C.* **Phillips**.
Murray, *Arthur G.* See *Frederic S.* **Kipping**.

N.

Nicholson, *Vincent S.* See *Cameron G.* **Anderson**.
Nisbet, *Hugh B.* See *Alfred A.* **Boon**.
Nixon, *Joseph.* See *Herbert H.* **Hodgson**.
Nodzu, *Ryuzabubo.* See *Wilson* **Baker**.
Norrish, *Ronald G. W.*, photochemical equilibrium in nitrogen peroxide. Part II. The dependence of quantum efficiency on wave-length, 1158.
photochemical equilibrium in nitrogen peroxide. Part III. A comparison of the thermal, photochemical, and electrical decompositions, and a general theory of the change, 1604.
photochemical equilibrium in nitrogen peroxide. Part IV. The relation between fluorescence and photochemical action, 1611.

O.

Orton, *Kennedy J. P.* See *Alan E.* **Bradfield**.
Osborne, *Thomas B.*, obituary notice of, 2974.
Ott, *Edwin*, the decomposition of carbon monoxide in the silent electric discharge, 2422.
Owens, *William M.* See *Isidor M.* **Heilbron**.

P.

Parker, *Thomas W.*, and *Percy L.* **Robinson**, the determination of available oxygen by the Bunsen method, 1106.
Parkes, *George D.* See *Frederick D.* **Chattaway**.
Partington, *James R.*, the action of sulphur monochloride on antimony pentachloride, 2573.
arsenic trichloride and sulphur chloride, 2577.
Partington, *James R.*, and *Albert F.* **Tipler**, potassium hexathionate, 1382.
Partington, *James R.* See also *Vivian E. S.* **Mitchell**.
Patterson, *Thomas S.*, and *Alexander* **Lawson**, the influence of solvents and other factors on the rotation and the rotation-dispersion of optically active compounds. Part XXVII. Derivatives of lactic acid, 2042.
Patterson, *Thomas S.*, and *John* **Robertson**, the preparation of α- and β-methylglucoside, 3C0.
Patterson, *Thomas S.*, and *George* **Thomson**, the polarimetric study of intramolecular rearrangement in inactive substances. Part VII., 1895.
Patterson, *Thomas S.*, and *Alexander R.* **Todd**, the action of phosphorus pentachloride on ethyl tartrate, 1768.
the influence of solvents and of other factors on the rotation of optically active compounds. Part XXVIII. The rotation dispersion of mannitol and some of its derivatives; note on rotation dispersion curves, 2876.
Peacock, *David H.*, *Mandal* **Bhattacharya**, and *B. Lakshman* **Rao**, phenoxyethylaniline and related compounds. Part I., 1926.
Peakin, *Frank H.* See *Oscar L.* **Brady**.
Pearse, *Percy L.* See *Walter C.* **Davies**.
Peat, *Stanley.* See *Walter N.* **Haworth**.
Peel, *John B.* See *Henry V. A.* **Briscoe**.
Pennycuick, *Stuart W.*, colloidal platinum. Part V. The coagulation by electrolytes in acid solution, 618.
colloidal platinum. Part VI. The behaviour of platinum sols in basic solution, 623.
Percival, *Edmund G. V.*, and *William* **Wardlaw**, new polynuclear co-ordination compounds of cobalt, 1317.
cobalt with a covalency of four: a new series of complex compounds, 1505.
polynuclear cobalt complexes containing cobalt in the anion, 2628.
Perkin, *Arthur G.*, and *Charles W. H.* **Story**, the migration of the acyl group in partly acylated phenolic compounds. Part II. Synthesis of anthragallol 1:2- and 1:3-dimethyl ethers, 1399.

Perkin, *Arthur G.* See also *Richard W.* **Hardacre.**

Perkin, *William H., jun.*, the early history of the synthesis of closed carbon chains, 1347.

Perkin, *William H., jun.*, and *Robert* **Robinson**, strychnine and brucine. Part VIII. The action of hydriodic acid on strychnidine; dihydrostrychnidine (B) and substances derived therefrom, 964.

Perkin, *William H., jun.* See also *Herbert S. B.* **Barrett**, *Bertie K.* **Blount**, and *Satyendra N.* **Chakravarti.**

Perkins, *Thomas R.*, cadmium and beryllium peroxides, 1687.

Peters, *Arnold T.* See *Frederick* **Challenger.**

Phelps, *Harold J.*, the adsorption of fumaric and maleic acids by pure charcoals, 1724.

Phillips, *Henry.* See *Armand J. H.* **Houssa.**

Phillips, *John W. C., John S. H.* **Davies**, and *Stanley A.* **Mumford**, observations on the chlorination products of ββ′-dichlorodiethyl sulphide. Part II., 535.

Phillips, *John W. C.* See also *Stanley A.* **Mumford.**

Phillips, *Montague A.*, the formation of 1-substituted benziminazoles, 2820.

Philpott, *David.* See *Nicholas M.* **Cullinane.**

Piper, *Stephen H.*, an *X*-ray examination of some salts of the fatty acids, 234.

Plant, *Sydney G. P.*, derivatives of dihydropentindole. Part II., 2493.

Plant, *Sydney G. P.*, and *Reginald J.* **Rosser**, stereoisomerism in substituted 1:2:3:4-tetrahydroquinolines. Part I., 1861.

Plant, *Sydney G. P.*, and *Kenneth H.* **Rutherford**, derivatives of tetrahydrocarbazole. Part VIII. Formation and reactions of nitric acid addition products, 1970.

Plant, *Sydney G. P.* See also *Bertie K.* **Blount.**

Plimmer, *Robert H. A.*, and *William J. N.* **Burch**, esters of phosphoric acid. Part I. Phosphates of cetyl alcohol, cholesterol, chloroethyl alcohol, and ethylene glycol, 279.

esters of phosphoric acid. Part II. The action of ethyl metaphosphate on alcohols, ammonia, and some amino-compounds, 292.

Pollard, *Alfred.* See *Wilson* **Baker.**

Porter, *Charles R.* See *Harry D. K.* **Drew**, and *Walter N.* **Haworth.**

Pratt, *Walter L.* See *George M.* **Bennett.**

Price, *Leslie S.* See *Thomas W. J.* **Taylor.**

Price, *William J.* See *Cyril W. H.* **Jones.**

Pride, *William E.* See *Robert F.* **Hunter.**

Prideaux, *Edmund B. R.*, and *John O'N.* **Millott**, the action of hydrogen fluoride on compounds of selenium and tellurium. Part III. Solubilities of tellurium dioxide and oxyfluorides, 2703.

Pugh, *William*, germanium. Part IV. The solubility of germanium dioxide in acids and alkalis, 1537.

germanium. Part V. The hydrolysis of sodium germanate and the dissociation constants of germanic acid, 1994.

germanium. Part VI. An improved method of extracting germanium from germanite, 2540.

Purcell, *Ronald H.*, and *Wilhelmus de* **Lange**, the vapour density and pressure of ammonium iodide, 275.

Pyman, *Frank L.* See *Frank* **Bryans**, *Reginald* **Child**, and *Douglas W.* **Hill.**

Q.

Qudrat-i-Khuda, *Muhammad*, studies in keto-lactol tautomerism. Part I. Ring-chain tautomerism in α-carboxy-γ-acetyl-ββ-dimethylbutyric acid and a synthesis of γ-acetyl-ββ-dimethylbutyric acid, 201.

studies in keto-lactol tautomerism. Part II. Influence of the *cyclo*hexane ring on the tautomeric character of *cyclo*hexane-1-acetone-1-malonic acid, a comparison with *cyclo*pentane-1-acetone-1-malonic acid, and synthesis of the corresponding δ-keto-monobasic acids, 713.

studies in keto-lactol tautomerism. Part III. Influence of bulky substituents on the tautomerism of α-carboxy-γ-acetyl-β-methyl-β-ethyl-butyric and -ββ-diethyl-butyric acids, 1913.

Quin, *James P.* See *John E.* **Mackenzie.**

R.

Rao, *B. Lakshman.* See *David H.* **Peacock.**

Rao, *Keshaviah A. N.*, studies in "strainless" rings. Part I. β-Substituted stereoisomeric decalins (decahydronaphthalenes), 1954.

Rao, *Mysore G. S.*, *Collurayana* **Srikantia**, and *Mysore S.* **Iyengar**, substitution in resorcinol derivatives. Part II. Bromo-derivatives of β-resorcylaldehyde and their orientation, 1578.

Raper, *Richard.* See *George R.* **Clemo**.

Rây, *Jñanendra N.*, 6(or) 8-nitro-1-phenylphthalazine, 2661.

Rây, *Jñanendra N.* See also *Joti S.* **Aggarwal**.

Read, *John*, (*Miss*) *Ishbel G. M.* **Campbell**, and *Thomas V.* **Barker**, the optically active diphenylhydroxyethylamines and *iso*hydrobenzoins. Part II., 2305.

Read, *John*, (*Miss*) *Catherine C.* **Steele**, and *Peter G.* **Carter**, researches in the menthone series. Part VI. The crystallisation of menthylamines with optically active acids, 23.

Read, *John*, and *Andrew J.* **Watters**, piperitone. Part X. The synthesis of certain menthadienes, menthenes, and menthanols, 2165.

Read, *John*, *Andrew J.* **Watters**, *George J.* **Robertson**, and *Reginald S.* **Hughesdon**, piperitone. Part IX. Some oxidation reactions of piperitone, 2068.

Reade, *Thomas H.*, the polarity of the halogens in solutions of pyridinium and allied dichloroiodides, 853.

Reade, *Thomas H.* See also *William G.* **Macmillan**.

Reeves, *H. Gordon*, methylation of *dl*-glyceraldehyde, 1327.

Reilly, *Joseph*, *Peter J.* **Drumm**, and *Timothy V.* **Creedon**, the nitration of phenylbenzylamine derivatives, 641.

Reilly, *Joseph*, and *Denis* **Madden**, the stability of diazonium salts of the triazole series, 815.

Reynolds, *Cedric V.* See *Oscar L.* **Brady**.

Richardson, (*Miss*) *Minnie*, and *Frederick G.* **Soper**, the effect of the cohesion of the medium on reaction velocity; the velocity of interaction of *N*-chloroacetanilide and hydrobromic acid in aqueous solutions, 1873.

Riiber, *Claus N.*, *Josef* **Minsaas**, and *Ralph T.* **Lyche**, on the modifications of galactose, 2173.

Riley, *Harry L.*, the dielectric constant of desiccated oxygen, 1026.

Riley, *Harry L.*, studies in complex salts. Part II. The preparation, properties and stability of some bisdicarboxylato copper salts, 1307.

Riley, *Harry L.*, and (*Miss*) *Nellie I.* **Fisher**, the electrolytic dissociation of some metal malonates. 2006.

Roberts, *Kenneth C.*, and *Samuel* **Smiles**, methoxy-derivatives of thioxanthone, 863, 1322.

Robertson, *Alexander*, synthesis of glucosides. Part II. The preparation of some galactosides, 1820.

Robertson, *Alexander*, and *Roy B.* **Waters**, synthesis of glucosides. Part III. Synthesis of glucosides of hydroxyxanthones, 2239.

Robertson, *George J.* See *John* **Read**.

Robertson, *John.* See *Thomas S.* **Patterson**.

Robertson, *John M.* See *George G.* **Henderson**.

Robinson, (*Mrs.*) *Gertrude M.*, attempts to find new anti-malarials. Part I. Some pyrroloquinoline derivatives, 2947.

Robinson, *Percy L.* See *Henry V. A.* **Briscoe**, and *Thomas W.* **Parker**.

Robinson, *Robert*, and *Krishnasami* **Venkataraman**, anthoxanthins. Part VIII. A synthesis of morin and of 5:7:2′:4′-tetrahydroxyflavone, 61.

Robinson, *Robert.* See also *Wilson* **Baker**, *George* **Barger**, *Herbert S. B.* **Barrett**, *John M.* **Gulland**, *Tom* **Heap**, and *William H.* **Perkin**, *jun.*

Rördam, *Hans N. K.*, the Walden inversion. Part II., 1282.

Roffey, *F.* See *William E.* **Garner**.

Rosser, *Reginald J.* See *Sydney G. P.* **Plant**.

Rothstein, *Eugene.* See *Christopher K.* **Ingold**.

Rowlands, *John R.* See *Henry V. A.* **Briscoe**.

Rule, *H. Gordon*, optical activity and the polarity of substituent groups. Part XIII. Note on the direct space effect in *d*-amyl derivatives, 2524.

Rule, *H. Gordon*, and *W. Eoghan* **MacGillivray**, optical activity and the polarity of substituent groups. Part X. Influence of ionisable groups on the rotatory power of *l*-menthyl benzoate, 401.

Rule, *H. Gordon*, *John B.* **Miles**, and *W. Eoghan* **MacGillivray**, optical activity and the polarity of substituent groups. Part XI. *sec.*-β-Octyl esters of benzoic acids containing basic and acidic substituents, 2274.

Rule, *H. Gordon*, *John* **Spence**, and *Egon* **Bretscher**, optical activity and the polarity of substituent groups. Part XII. The direct space effects of *meta* and *ortho-para* directive substituents; *l*-menthyl esters of substituent naphthoic acids, 2516.

Russell, *Alexander S.*, the order of removal of metals from amalgams, 2398.

Russell, *Alexander S.* See also *Kenneth S.* **Jackson**, and *Jack L.* **Merrill**.

Russell, *Alfred*, and *Alfred W.* **Stewart**, Tesla-luminescence spectra. Part VII. Some aromatic aldehydes, 2407.

Tesla-luminescence spectra. Part VIII. Some halogen-substituted derivatives of benzene, 2432.

Russell, *Alfred*. See also *James C.* **Macmaster**, and (*Miss*) *Mary W.* **Monypeny**.

Rutherford, *Kenneth H.* See *Sydney G. P.* **Plant**.

S.

Sand, *Henry J. S.*, a steam drying oven with detachable base, 214.

Sandved, *Karl*, the quaternary system lead acetate–lead chloride–acetic acid–water at 25°, 337.

Sawyer, *Edward W.* See (*Miss*) *Millicent* **Taylor**.

Sayce, *Leonard A.*, the reaction between ferric oxide and hydrogen sulphide at temperatures between 120° and 830°, 2002.

Sayce, *Leonard A.*, and *Henry V. A.* **Briscoe**, the effect of a gas upon the pressure of a vapour, 1302.

Scarborough, *Harold A.*, substitution products of 1-nitro- and 1-acetamidodiphenyl ether, 2361.

Scott, *James*. See *John M.* **Gulland**.

Scott, *William D.* See *Ernest H.* **Farmer**.

Selva, *Raúl J.* See *Venancio* **Deulofeu**.

Seshadri, *Tiruvenkata R.*, attempts to find new anti-malarials. Part II. Aminoalkylquinolinium salts and some related substances, 2952.

Sexton, *Wilfred A.* See *Isidor M.* **Heilbron**.

Shah, *Madhavlal S.*, the combustion of charcoal in oxygen, nitric oxide, and nitrous oxide. Part I. The adsorption of oxygen, 2661.

the combustion of charcoal in oxygen, nitric oxide, and nitrous oxide. Part II. The effect of temperature, 2676.

Sharp, (*Miss*) *Gladys I.* See *Leslie G.* **Groves**.

Shoesmith, *John B.*, and *Alexander* **Mackie**, the nitration of *m*-acetamido-*tert.*-butylbenzene, 476.

Shoppee, *Charles W.* See *Christopher K.* **Ingold**.

Short, *Wallace F.*, and *Martin L.* **Stewart**, the rearrangement of phenyl benzyl ethers, 553.

Sidgwick, *Nevil V.*, the volatility and structures of the azides and aliphatic diazo-compounds, 1108.

Simonsen, *John L.* See *Leslie A.* **Elson**, *Charles S.* **Gibson**, and *Kottiazath N.* **Menon**.

Simpson, *Ian A.* See *Isidor M.* **Heilbron**.

Smiles, *Samuel*. See *Aaron* **Cohen**, and *Kenneth C.* **Roberts**.

Smith, *James F.* See *William O.* **Kermack**.

Smith, *Jesse E.* See *Harry M.* **Dawson**.

Smith, *John W.*, the apparent influence of an electric field on the boiling point of benzene, 788.

Smits, *Andreas*, and *Emanuel* **Swart**, necessary procedures for the exact determination of vapour tension, 2724.

Smits, *Andreas*, *Emanuel* **Swart**, and *Pietar* **Bruin**, the influence of intensive drying on inner equilibria. Part V., 2712.

Soper, *Frederick G.* See (*Miss*) *Minnie* **Richardson**.

Soyka, *Charles*. See *George M.* **Dyson**.

Spence, *John*. See *H. Gordon* **Rule**.

Spencer, *Wilfred D.*, and *Bryan* **Topley**, chemical kinetics of the system $Ag_2CO_3 \rightleftharpoons Ag_2O + CO_2$, 2633.

Spittle, *Henry M.*, and *William* **Wardlaw**, complex oxalates of quadrivalent molybdenum, 792.

Spring, *Frank S.* See *Isidor M.* **Heilbron**.

Srikantia, *Collurayana*. See *Mysore G. S.* **Rao**.

Stammberger, *Paul*, a study of the vapour-pressure diminution of rubber jellies, 2318.

Stedman, *Edgar*, and (*Mrs.*) *Ellen* **Stedman**, the methylurethanes of the isomeric α-hydroxyphenylethyldimethylamines and their mioticactivity, 609.

Stedman, (*Mrs.*) *Ellen*. See *Edgar* **Stedman**.

Steele, *Arthur R.*, and *Frederic S.* **Kipping**, some derivatives of tri-*p*-tolylsilicane, 357.

organic derivatives of silicon. Part XLI. Octa-*p*-tolylsilicotetrane, octa-*p*-tolyl*cyclo*silicotetrane, and other products from di-*p*-tolylsilicon dichloride, 2545.

Steele, (*Miss*) *Catherine C.* See *John* **Read.**
Stent, *Howard B.*, *Vira* **Subramaniam,** and *Thomas K.* **Walker,** the mechanism of the degradation of fatty acids by mould fungi. Part III., 1987.
Stent, *Howard B.* See also *Vira* **Subramaniam.**
Stewart, *Alfred W.* See *James C.* **Macmaster,** and *Alfred* **Russell.**
Stewart, *Martin L.* See *Wallace F.* **Short.**
Stockdale, *John.* See *Ulick R.* **Evans.**
Story, *Charles W. H.* See *Arthur G.* **Perkin.**
Stringfellow, *William A.*, the thermal decomposition of ammonia, with particular reference to the existence of active and inactive phases of ammonia, 1.
Subramaniam, *Vira*, *Howard B.* **Stent,** and *Thomas K.* **Walker,** the mechanism of the degradation of fatty acids by mould fungi. Part IV., 2485.
Subramaniam, *Vira.* See also *Howard B.* **Stent.**
Sugden, (*Miss*) *Ruth*, the ternary system mercuric chloride–mercuric iodide–water, 488.
Sugden, *Samuel*, the parachor and chemical constitution. Part X. Singlet linkages in chelated co-ordination compounds, 316.
molecular volumes at absolute zero. Part III. Zero volumes, parachors, and molecular diameters, 1055.
Sugden, *Samuel*, and *Henry* **Wilkins,** the parachor and chemical constitution. Part XII. Fused metals and salts, 1291.
Sugden, *Samuel.* See also *Frederick B.* **Garner,** and *William J. R.* **Henley.**
Swart, *Emanuel.* See *Andreas* **Smits.**

T.

Taylor, (*Miss*) *Katherine F.* See *Harold L.* **Bassett.**
Taylor, (*Miss*) *Millicent*, and *Edward W.* **Sawyer,** the transference of water and its dependence on concentration in the electrolysis of sodium chloride solutions, 2095.
Taylor, *Thomas W. J.*, the preparation of quinaldinic acid, 1110.
Taylor, *Thomas W. J.*, and *Leslie S.* **Price,** the action of nitrous acid on amino-compounds. Part III. Dimethylamine, *n*-propylamine, and glycine ethyl ester, 2052.
Tcherniac, *Joseph*, obituary notice of, 2976.
Tewari, *Jamuna D.*, dyes derived from cinchomeronic acid, 1642.
Thompson, *Albert.* See *Isidor M.* **Heilbron.**
Thompson, *Reginald A.*, and *Frederic S.* **Kipping,** organic derivatives of silicon. Part XXXIX. The action of sodium on phenoxychlorosilicanes, 1176.
Thomson, *George.* See *Thomas S.* **Patterson.**
Thorn, (*Miss*) *Vera M.* See *Tom S.* **Moore.**
Thornley, *Sidney.* See *John M.* **Gulland.**
Thorpe, *Jocelyn F.*, presidential address, 834.
Tipler, *Albert F.* See *James R.* **Partington.**
Todd, *Alexander R.* See *Thomas S.* **Patterson.**
Topley, *Bryan.* See *Wilfred D.* **Spencer.**
Townley, *John E.* See *John A. N.* **Friend.**
Tucker, *Stanley H.* See *Peter* **Maitland.**
Turner, *Eustace E.* See *Leslie G.* **Groves,** *Herbert C.* **Gull,** (*Miss*) *Mary S.* **Lesslie,** and *Horace A.* **Mayes.**

V.

Vallance, *Reece H.* See *John A. N.* **Friend.**
Veibel, *Stig*, application of semicarbazones to the determination of ketones, 2423.
Venkataraman, *Krishnasami*, synthetical experiments in the chromone group. Part I. A new synthesis of 7:8-dihydroxy-2-methylchromone and 7:8-dihydroxyflavone, 2219.
Venkataraman, *Krishnasami.* See also *Robert* **Robinson.**
Vineall, *G. J. C.* See *David R.* **Boyd.**
Virden, *Cyril J.* See *John M.* **Gulland.**
Vogel, *Arthur I.*, synthesis of cyclic compounds. Part V. The catalytic and the thermal decomposition of some normal dibasic acids; a contribution to the problem of the ease of formation of simple carbon rings, 721.
the dissociation constants of organic acids. Part I. The primary dissociation constants of some alkyl malonic acids, 1476.
the dissociation constants of organic acids. Part II. The primary dissociation constants of some cyclic 1:1-dicarboxylic acids, 1487.

W.

Waddington, *William B.* See *George M.* **Bennett.**

Walker, *Thomas K.* See *Frederick* **Challenger**, *Howard B.* **Stent**, and *Vira* **Subramaniam.**

Walton, *Eric.* See *George R.* **Clemo.**

Ward, *Allan M.*, investigations on the bivalency of carbon. Part II. The displacement of chlorine from desyl chloride; benzoin diethylacetal, 1541.

Wardlaw, *William.* See *Frederick G.* **Angell**, *Edmund G. V.* **Percival**, and *Henry M.* **Spittle.**

Warren, *Frank L.* See *Ernest H.* **Farmer.**

Warren, *Leonard A.* See *Ernest W.* **McClelland.**

Waters, *Roy B.* See *Alexander* **Robertson.**

Waters, *William A.*, halogen substitution products of 4-aminobenzophenone, 2106.

Watson, *Herbert B.*, and *Cecil E.* **Gregory**, the interaction of bromine with acetic anhydride. Part V. Bromination and chlorination compared (*continued*); some properties of acetic chloroacetic anhydride, 1373.

Watson, *Herbert B.* See also *Edward D.* **Hughes.**

Watters, *Andrew J.* See *John* **Read.**

Webb, *Harry W.* See *Cyril W. H.* **Jones.**

Webb, *John I.* See *Walter N.* **Haworth.**

Webb, *Walter W.* See *Arthur J.* **Allmand.**

Wheeler, *Richard V.* See *Ernest N.* **Hague**, *Ronald* **Holroyd**, *Vernon H.* **Legg**, and *George B.* **Maxwell.**

Whitby, *Lawrence*, the reaction between ferric sulphate solution and cuprous sulphide, 60.

Wilkins, *Henry.* See *Samuel* **Sugden.**

Willey, *Eric J. B.*, on active nitrogen. Part V. The decay of the nitrogen after-glow, 228.

Williams, *Albert F.* See *Alan E.* **Bradfield.**

Williams, *David M.*, the photobromination of coumarin, 1383.

Willis, *Gervase H.* See *George M.* **Bennett.**

Wood, *Harold.* See *George N.* **Burkhardt.**

Wren, *Henry*, and *Edward* **Wright**, studies in the phenylsuccinic acid series. Part IX. The resolution of *r*-diphenylsuccin-α- and -β-naphthylamic acids into their optical antipodes, 136.

studies in the phenylsuccinic acid series. Part X. Racemisation phenomena observed during the action of water and bases on the optically active diphenylsuccinic anhydrides, 138.

Wright, *Edward.* See *Henry* **Wren.**

Wright, *Robert*, and *Thomas* **McGregor**, the effect of gases on the colour of iodine vapour, and the solvent action of various vapours on solid iodine, 1364.

Y.

Yakubchik, *Anastasia O.* See *Serguey V.* **Lebedev.**

Yarnold, *Edwin T.* See *Edmund J.* **Bowen.**

Young, *George W.* See *Henry V. A.* **Briscoe.**

INDEX OF SUBJECTS, 1929.

A.

o-(3-Acenaphthylamino)phenylarsinic acid (GIBSON and JOHNSON), 1621.

Acetaldehyde, emission of light from phosphorescent flames of (EMELÉUS), 1733.

Acetamide, cyano-, condensation of β-diketones with (BARDHAN), 2226.
thiol-, detection of arsinic acid with (BARBER), 1024.

Acetanilide, *N*-chloro-, velocity of interaction of hydrobromic acid and (RICHARDSON and SOPER), 1873.

Acetic acid, and its lead salt, equilibrium of lead chloride, water, and (SANDVED), 337.
thallous salt, parachor of (SUGDEN), 326.
ethyl ester, catalytic hydrolysis of (DAWSON and LOWSON), 393.

Acetic acid, chloro-, as catalyst in hydrolysis of ethyl acetate (DAWSON and LOWSON), 393.
*di*chloro-, allyl and *n*-propyl esters (CHATTAWAY and IRVING), 1042.

Acetic anhydride, interaction of bromine with (WATSON and GREGORY), 1373.

Acetic chloroacetic anhydride (WATSON and GREGORY), 1373.

Acetoacetic acid, ethyl thallium salt, parachor of (SUGDEN), 325.

Aceto-4-bromo-2:5-dimethoxyanilide (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2930.

Acetomethylanilide, *o*-amino- and *o*-nitro- (PHILLIPS), 2824.

Aceto-β-naphthalide, nitro- (BELL), 2785.

Acetone, equilibrium of *n*-butyl alcohol, water, and (JONES), 799.
condensation of fluorene with (MAITLAND and TUCKER), 2559.

Acetophenone, *o*-nitro-, preparation of (KERMACK and SMITH), 814.
o-thiol-, and its semicarbazone (McCLELLAND), 1591.

Acetyl bromide, reaction of ethyl ether, naphthol, and (BASSETT and TAYLOR), 1568.

Acetylacetone, and its derivatives, parachors of (SUGDEN), 327.

1-Acetyl-1:2:3-benztriazolearsinic acids (PHILLIPS), 2827.

γ-Acetyl-ββ-diethylbutyric acid, and its derivatives (QUDRAT-I-KHUDA), 1919.

γ-Acetyl-ββ-dimethylbutyric acid, synthesis of, and α-cyano-, ethyl ester, and its semicarbazone (QUDRAT-I-KHUDA), 201.

2-Acetyl-3:5-dimethyl-1:2-dihydrobenzthiazole, 1-imino- (HUNTER and PRIDE), 944.

2-Acetyl 3:4-dimethyl methylrhamnoside (HAWORTH, HIRST, and MILLER), 2475.

Acetylene, thermal decomposition and polymerisation of (HAGUE and WHEELER), 391.

Acetylharmaline, constitution of (BARRETT, PERKIN, and ROBINSON), 2942.

β-3-Acetylmethylamino-1-methylamino-2-phenylnaphthalene, and its 1-nitroso-derivative (KENTISH), 1174.

1-Acetyl-2-methylene-1:2-dihydrobenz-*iso*thiazole, and bromo- (McCLELLAND), 1591.

γ-Acetyl-β-methyl-β-ethylbutyric acid, and its derivatives (QUDRAT-I-KHUDA), 1917.

α-Acetyl-β-methylglutaric acid, ethyl ester (BURTON and INGOLD), 2030.

3-Acetyl-4-methyl*cyclo*pentan-4-ol-1:2-dicarboxylic acid (FARMER and WARREN), 903.

***p*-Acetylphenyl*cyclo*hexane** phenylhydrazone (MAYES and TURNER), 507.

1-Acetylpurpuroxanthin (PERKIN and STORY), 1415.

Acetyl-*m*-xylylthiocarbamide (HUNTER and PRIDE), 944.

Acid, $C_{16}H_{10}O_6N_2$, from oxidation of 3:4-methylenedioxyquindoline (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2936.

Acids, ionisation of, in salt solutions (DAWSON and LOWSON), 1217.
aliphatic, action of bromine on (HUGHES and WATSON), 1945.
dicarboxylic, dimorphism in (CASPARI), 2709.
*di*basic, electrometric titration curves of (GANE and INGOLD), 1691.
influence of inert salts on secondary dissociation of (DAWSON and SMITH), 2530.
catalytic and thermal decomposition of (VOGEL), 721.
carboxylic, esters, reaction of Grignard reagents with (HATT), 1623.

Acids, cyclic, electrolytic reduction of imides of (MENON and SIMONSEN), 302.
fatty, degradation of, by mould fungi (STENT, SUBRAMANIAM, and WALKER), 1987, 2485.
salts, *X*-ray structure of (PIPER), 234.
*mono*basic, heats of crystallisation of (GARNER and KING), 1849.
olefinic lower (ECCOTT and LINSTEAD), 2153.
organic, dissociation constants of (VOGEL), 1476, 1487.
unsaturated conjugated, reduction of, by metals soluble in aqueous solutions (BURTON and INGOLD), 2022.
Address, presidential (THORPE), 834.
Adipic acid, catalytic and thermal decomposition of (VOGEL), 727.
Adipodi-β-phenylethylamide (CHILD and PYMAN), 2015.
Adipodi-β-piperonylethylamide (CHILD and PYMAN), 2016.
Adipodi-β-veratrylethylamide (CHILD and PYMAN), 2016.
Alcohols, equilibrium between salts and (GIBSON, DRISCOLL, and JONES), 1440.
polyhydric, partial esterification of (FAIRBOURNE and COWDREY), 129; (FAIRBOURNE), 1151, 2232.
Aldehydes, aromatic, Tesla-luminescence spectra of (RUSSELL and STEWART), 2407.
substituted, pyridine synthesis from (HINKEL and MADEL), 750.
Aldehydes, chloro-, action of potassium cyanide on (CHATTAWAY and IRVING), 1038.
Aldoximes, methylation of (BRADY and CHOKSHI), 2271.
and their derivatives, action of semicarbazide hydrochloride and of 2:4-dinitrophenylhydrazine hydrochloride on (BRADY and PEAKIN), 478.
Alizarin dimethyl ethers, 3-amino- and 3-nitro- (PERKIN and STORY), 1416.
Alkaline-earth hydroxides, compounds of sugars with (MACKENZIE and QUIN), 951.
Alkaloids, aporphine. See Aporphine alkaloids.
lupin. See Lupin alkaloids.
Alkoxides, sodium, tautomerism in (KON and LINSTEAD), 1269.
Aluminium bromide, parachor of (SUGDEN), 328.
chromate (BRIGGS), 243.
Amalgams. See Mercury alloys.
Amidoximes, isomeric (BRADY and PEAKIN), 2267.
Amino-compounds, action of nitrous acid on (TAYLOR and PRICE), 2052.
Ammines (KING), 2593.
Ammonia, effect of drying on (SMITS, SWART, and BRUIN), 2718.
thermal decomposition of (STRINGFELLOW), 1.
Ammonium:—
Diammonium molybdenyl *penta*bromide (ANGELL, JAMES, and WARDLAW), 2580.
Ammonium chloride, band formation of, from ammonia and hydrochloric acid (HEDGES), 1849.
density and viscosity of standard solutions of, in hydrochloric acid (INGHAM), 2059.
iodide, vapour density and pressure of (PURCELL and DE LANGE), 275.
nitrate, equilibrium of carbamide with (HOWELLS), 910.
Ammonium organic compounds:—
Ammonium hydroxides, quaternary, degradation of (INGOLD and JESSOP), 2357.
Amyl alcohol, ε-chloro-, derivatives of (BENNETT and HEATHCOAT), 273.
Amyl methyl sulphide, ε-chloro- (BENNETT, HEATHCOAT, and MOSSES), 2571.
d-**Amyl** derivatives, direct space effect in (RULE), 2524.
8-*n*-Amylamino-6-methoxyquinoline, 8-ε-amino-, and its salts (BALDWIN), 2964.
Amylases of cereals (BAKER and HULTON), 1655.
Amylene, pressure–temperature curves of mixtures of oxygen with (LEWIS), 759.
n-**Amylphthalimide**, ε-bromo- (BALDWIN), 2963.
Anhydro-γ-*o*-carboxybenzamidopropyl-6-methoxyquinolinium hydroxide (SESHADRI), 2957.
Anhydrocatechin tetramethyl ether, preparation of, and its derivatives (BAKER), 1593.
Anhydrocotarnine-2-nitro-3:4-dimethoxyphenylacetonitrile (GULLAND and VIRDEN), 1798.
ψ-**Anhydrodihydrolupinine**, and its derivatives (CLEMO and RAPER), 1936.
Anhydrodihydromethyl-lupanines, and their derivatives (CLEMO and RAPER), 1937.
Anhydrolaudaline-2-nitro-3:4-dimethoxyphenylacetonitrile (GULLAND and VIRDEN), 1798.
ψ-**Anhydrolupinine**, and their derivatives (CLEMO and RAPER), 1935.
Anhydromethyl-lupanines, and their derivatives (CLEMO and RAPER), 1936.

Anhydro-2:3-(2′-phenylpyrrole)(4′:5′)-quinoline methohydroxide (ROBINSON), 2951.

Anilides, solubility of, in aqueous solutions of acetic acid (BRADFIELD and WILLIAMS), 2542.
halogenation of (BRADFIELD, JONES, and ORTON), 2810.

Aniline, *s-tri*chloro-, picrate (BENNETT and WILLIS), 267.
2:3:5-*tri*chloro- and 2:3:6-*tri*chloro-4-nitro- (HODGSON and KERSHAW), 2920.
3:4-*di*hydroxy-, diacetyl derivative (BALABAN), 1092.

Anilines, nitro-, formation of, from phenylnitroamines (BRADFIELD and ORTON), 915.

1-Anilinobenzthiazoles, *mono-* and *di*-bromo- and -chloro-, 5:4′-*di*cyano-, -*di*fluoro-, -*di*iodo-, and -*di*nitro-, and their derivatives (DYSON, HUNTER, and SOYKA), 460.

1-Anilinobenzthiazole-5:4′-dicarboxylic acid, and its ethyl ester (DYSON, HUNTER, and SOYKA), 465.

β-Anilinobutyracetal, action of phosphorus pentoxide on (MASON), 1560.

1-Anilino-$\Delta^{1:2}$-*cyclo*hexene-2-carboxylic acid, ethyl ester (BLOUNT, PERKIN, and PLANT), 1986.

9-Anilinomethyl-2-methylanthracene, and 10-bromo- (BARNETT and GOODWAY), 1760.

3-Anilino-oxindole (CALLOW and HOPE), 1198.

***o*-Anisaldehyde**, preparation of (COPISAROW), 589.
benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1944.

Anisole, *tri*chloro-, *mono-* and *di*-chloro-iodo-, *di*chloroamino-, and *di*chloro-nitro- (HODGSON and KERSHAW), 2921.
3-chloro-4-nitroso- (HODGSON and KERSHAW), 1555.

β-*p*-Anisylgalactoside, and its tetra-acetyl derivative (ROBERTSON), 1821.

Annual General Meeting, 817.

Anthoxanthins (ROBINSON and VENKATARAMAN), 61; (HEAP and ROBINSON), 67; (BAKER, NODZU, and ROBINSON), 74.

Anthracene, synthesis of *meso*-alkyl and *meso*-aryl derivatives of (BARNETT and GOODWAY), 20, 1754.
synthesis of homologues of (MORGAN and COULSON), 2203, 2551.

Anthracene, chloro-3:9-*di*hydroxy-, and 3:9-*di*hydroxy-, diacetyl derivatives (HARDACRE and PERKIN), 187.

Anthragallol, acetyl, benzoyl, and toluene-*p*-sulphonyl derivatives, and their methyl and dimethyl ethers (PERKIN and STORY), 1409.

Anthragallol mono- and di-methyl ethers, synthesis of (PERKIN and STORY), 1399.

Anthranilic acid, *l*-menthyl ester (RULE and MACGILLIVRAY), 406.
l-sec.-β-octyl ester (RULE, MILES, and MACGILLIVRAY), 2278.

Anthranol, chlorohydroxy- and 2-iodo-3-hydroxy- (HARDACRE and PERKIN), 188.

Anthraquinone, 3-amino-2-hydroxy-, 1-*mono-* and 1:3-*di*-bromo-2-hydroxy-, 1-chloro-2-hydroxy- and 3-iodo-2-hydroxy-, and their derivatives (HARDACRE and PERKIN), 185.

Anthraquinone-2:7-dicarboxylic acid (MORGAN and COULSON), 2211.

Anthraquinones, hydroxy-, reduction products of (HARDACRE and PERKIN), 180.

Anti-malarials, new (BARGER and ROBINSON; ROBINSON), 2947; (SESHADRI), 2952; (BALDWIN), 2959; (CHATTERJEE), 2965.

Antimony *penta*chloride, action of sulphur monochloride on (PARTINGTON), 2573.
chlorides, additive compounds of, with hexamethylenetetramine (DUFF and BILLS), 417.
chromate (BRIGGS), 243.
chromite (BRIGGS), 244.

Antimony organic compounds, nitration of benzyl derivatives of (CHALLENGER and PETERS), 2610.

Aporphine alkaloids (CALLOW, GULLAND, and HAWORTH), 658, 1444; (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1666.

***l*-Arabinose**, degradation of (DEULOFEU and SELVA), 225.

Argentothiosulphuric acids, and their derivatives (BAINES), 2763.

Aromatic compounds, influence of ψ-acid systems on substitution in (BAKER), 2257.

Arsenic, phosphorescent flame of (EMELÉUS), 1846.
parachor of (HENLEY and SUGDEN), 1060.

Arsenic *tri*bromide and *tri*chloride, parachors of (HENLEY and SUGDEN), 1062.
*tri*chloride, action of sulphur monochloride on (PARTINGTON), 2577.
*tri*sulphide sols, coagulation of (GHOSH), 2695.

Arsenic organic compounds, nitration of benzyl derivatives of (CHALLENGER and PETERS), 2610.
from 3-aminoacenaphthene (GIBSON and JOHNSON), 1621.
aromatic, sulphur derivatives of (EVERETT), 670.
Arsenobenzenes, *di*amino-, *di*bromo-, *di*bromo*di*amino-, *di*bromo*di*hydroxy-, and their derivatives (HAYTHORNTHWAITE), 1014.
bromo-, chemotherapy of (HAYTHORNTHWAITE), 1011.
5:5′-Arseno-(2:3 dihydro)benziminazolone (EVERETT), 676.
***pp′*-Arseno(diphenylcarbamide)** (EVERETT), 676.
***pp′*-Arseno(diphenylthiocarbamide)** (EVERETT), 675.
Arsenopyrocatechol methylene ether, and 6:6′-*di*amino- (BALABAN), 1090.
4:4′-Arseno(-1-thiobenzoxazolone) (EVERETT), 676.
5:5′-Arseno-(2-thiolbenziminazole) (EVERETT), 676.
Arsinic acids, identification of, by means of thiolacetamide (BARBER), 1024.
Arylsulphuric acids, nitro- (BURKHARDT and WOOD), 141.
Arylthioarsinous acids, derivatives of (BARBER), 1020.
Aspergillus oryzæ, production of kojic acid from pentoses by (CHALLENGER, KLEIN, and WALKER), 1498.
Atomic weights, report on, 216.
table of, 218.
Azelaic acid, dimorphism of (CASPARI), 2709.
catalytic and thermal decomposition of (VOGEL), 730.
Azelaodi-β-phenylethylamide (CHILD and PYMAN), 2015.
Azelaodi-β-veratrylethylamide (CHILD and PYMAN), 2016.
Azides, volatility and structure of (SIDGWICK), 1108.
Azobenzene 2:2′-disulphate, potassium derivative (BURKHARDT and WOOD), 150.
Azonaphthols, conversion of, into azosulphites (KING), 601.
***p*-Azoxyanisole**, preparation of, and 3:3′-*di*chloro- (DAVIES and DOWN), 587.
7-Azoxy-5-carboline-3-carboxylic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2941.

B.

Balance sheets of the Chemical Society and the Research Fund. See Annual General Meeting, 817.
Behenic acid, heat of crystallisation of (GARNER and KING), 1859.
Bentonite, effect of proteins on coagulation of suspensions of, by electrolytes (GHOSH), 2285.
Benzaldehyde *p*-nitrobenzoylhydrazone (DANN and DAVIES), 1054.
Benzaldehyde, *p*-hydroxy-, *p*-nitrophenylhydrazone (HODGSON and COOPER), 234.
m-nitro-, benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1945.
2:4-*di*nitro-, as a reagent (BENNETT and PRATT), 1465.
Benzaldehydes, fluorobromohydroxy-, fluorohydroxy-, and fluoronitrohydroxy-, and their derivatives (HODGSON and NIXON), 1635.
Benzaldehyde-*p*-trimethylammonium salts (HODGSON and COOPER), 233.
Benz*syn*aldoxime, and its derivatives, rate of change of, into the *anti*-forms (PATTERSON and THOMSON), 1897.
Benzanilide, 3:4-*di*chloro- (WATERS), 2108.
Benzene, effect of drying on physical properties of (BRISCOE, PEEL, and ROBINSON), 368.
effect of an electric field on boiling point of (SMITH), 788.
derivatives, halogen-substituted, Tesla-luminescence spectra of (RUSSELL and STEWART), 2432.
Benzene, *penta*amino-, and *hexa*amino-, and its derivatives (FLÜRSCHEIM and HOLMES), 330.
m-*di*chloro*di*nitro-derivatives (DANN), 2460.
2:3:5-*tri*chloronitro- (HODGSON and KERSHAW), 2920.
fluoro-, fluorescence spectrum of (RUSSELL and STEWART), 2434; (MONYPENY and RUSSELL), 2436.
4-nitro-1:2-*di*hydroxy-, diacetyl derivative (BALABAN), 1092.
Benzeneazo-3:6-disulpho-β-naphthyl sodium sulphite (KING), 607.
Benzeneazophenyl sulphate, *di*hydroxy-, potassium derivative (BURKHARDT and WOOD), 147.
Benzeneazo-6-sulpho-β-naphthyl sodium sulphite (KING), 607.
Benzene-1.3-disulphonyl chloride, 5-nitro-, additive compounds of (BENNETT and WILLIS), 266.
Benzenesulphonhydrazide, *o*-nitro- (DANN and DAVIES), 1054.
Benzenesulphonic acid, 3:5-*di*iodo-4-hydroxy-, lead salt (DICKINSON), 358.
Benzenesulphon-β-naphthalide, *m*-nitro- (BELL), 2786.

Benzenesulphon-*o'p'*-*di*nitroanilide, *m*-nitro- (BELL), 2789.
Benzenesulphonnitroanilides, *m*-nitro- (BELL), 2788.
Benzenesulphon-8-nitro-β-naphthalide, *m*-nitro- (BELL), 2786.
Benzenesulphon-1:6-*di*nitro-β-naphthalide, *m*-nitro- (BELL), 2786.
Benzenesulphon-1:6:8-*tri*nitro-β-naphthalide, *m*-nitro- (BELL), 2786.
***dl*-Benzenesulphonylalanine**, resolution of, and its derivatives (GIBSON and LEVIN), 2754.
9-Benzhydrylanthrone, and 1:5-*di*chloro- (BARNETT and GOODWAY), 21, 813.
10-Benzhydryl-9-benzylanthracene (BARNETT and GOODWAY), 1757.
10-Benzhydryl-9-benzyl-9:10-dihydroanthranol-9 (BARNETT and GOODWAY), 1757.
10-Benzhydryl-9-methylanthracene (BARNETT and GOODWAY), 1757.
10-Benzhydryl-9-methyl-9:10-dihydroanthranol-9 (BARNETT and GOODWAY), 1757.
Benzidine, molecular compound of ***mm'***-dinitrobenzil and (BOON and NISBET), 1902.
Benzidine, *di*hydroxy-, diacetyl derivative (BURKHARDT and WOOD), 152.
Benzil, ***mm'*-*di*nitro-**, additive compounds of (BOON and NISBET), 1901.
Benziminazoles, 1-substituted, formation of (PHILLIPS), 2820.
Benziminazole-5-arsenic *di*sulphide, 2-thiol- (EVERETT), 675.
Benziminazole-5-arsinic acid, 2-thiol- (EVERETT), 677.
Benziminazole-2-propionic acid, and its derivatives (CHATTERJEE), 2966.
β-Benziminazolylethylamine *di*hydrochloride (CHATTERJEE), 2967.
Benzmethoxamyl chloride, *m*-nitro- (BRADY and PEAKIN), 2270.
Benzodimethylamide, *m*-nitro- (BRADY and PEAKIN), 2270.
Benzodimethylamidoxime, *m*-nitro-, and its derivatives (BRADY and PEAKIN), 2269.
Benzoic acid, *l*-menthyl ester, influence of ionisable groups on rotatory power of (RULE and MACGILLIVRAY), 401.
Benzoic acid, *o*-bromo-, replacement of halogen in (HURTLEY), 1870.
4-fluoro-2-hydroxy- (HODGSON and NIXON), 1639.
m-nitro-, *di*chloronitrophenyl esters (GROVES, TURNER, and SHARP), 521.
p-nitro-, α-methylallyl ester (BURTON), 456.
Benzoic acid, 3:5-*di*nitro-, γ-chloropropyl ester (BENNETT and HEATHCOAT), 271.
Benzoic acids, amino-, *l*-β-octyl esters (RULE, MILES, and MACGILLIVRAY), 2279.
amino- and hydroxy-, *l*-menthyl esters (RULE and MACGILLIVRAY), 405.
Benzoin diethylacetal (WARD), 1541.
Benzomethylethylamidoxime, *m*-nitro- (BRADY and PEAKIN), 2271.
Benzophenone, 3:5-*di*bromo-, 3-bromo-4-amino-, 3:5-*di*bromo-4-amino-, 3-bromo-5-iodo-4-amino-, 3:5-*di*chloro-, 3:5-*di*iodo-, 3-iodo-4-amino-, 3:5-*di*iodo-4-amino-, 5-iodo-3-nitro-, 3:5-*di*nitro-, and 3-nitro-5-amino-, and their derivatives (WATERS), 2108.
4-chloro-4'-bromo-, nitration of (GROVES and TURNER), 509.
α-Benzophenoneoxime, *p*-nitro-, action of ultra-violet light on (BRADY and CHOKSHI), 2273.
Benzo-γ-pyrones, constitution and colloidal properties of (BAKER and EASTWOOD), 2897.
***p*-Benzoquinone**, additive compounds of (BENNETT and WILLIS), 267.
***p*-Benzoquinonedioxime** 4-methyl ether (HODGSON and KERSHAW), 1557.
Benzoquinone-4-oxime, 3-chloro-, and its derivatives (HODGSON and KERSHAW), 1556.
Benzoxantha*spiro*pyran (IRVING), 1094.
1:4-Benz*iso*oxazines, amino-3-hydroxy-, 3-hydroxy-nitroamino- and nitro-3-hydroxy-, and their acetyl derivatives (BALABAN), 2608.
1:4-Benz*iso*oxazine-6-thioarsinous acid, 8-amino-3-hydroxy-, 8-acetyl derivative, esters of (BARBER), 1023.
Benzoxazolone-4-arsenic *di*sulphide, 1-thio- (EVERETT), 674.
Benzoxazolone-4-arsinic acid, 1-thiol- (EVERETT), 677.
Benzoylacetone, and its dimethylthallium derivative, parachors of (SUGDEN), 325.
***s*-Benzoylbenzylhydrazine** (AGGARWAL, DARBARI, and RÂY), 1945.
γ-Benzoylbutyric acid, *o*-amino, and its benzoyl derivative (PLANT), 2497.
***s*-Benzoyl-3:4-dimethoxybenzylhydrazine** (AGGARWAL, DARBARI, and RÂY), 1943.
Benzoyldi-*o*-tolylamine (GIBSON and JOHNSON), 2748.
Benzoylhydrazine, copper sulphate compound of (AGGARWAL, DARBARI, and RÂY), 1945.

Benzoylhydroperoxide, oxidation of α-terpinene with (ELSON, GIBSON, and SIMONSEN), 2732.
9-Benzoyl-10-hydroxyhexahydrocarbazole, 11-nitro-9-*p*-chloro- (PLANT and RUTHERFORD), 1974.
9-Benzoyl-10:11-*di*hydroxyhexahydrocarbazole (PLANT and RUTHERFORD), 1974.
***s*-Benzoylmethoxybenzylhydrazines** (AGGARWAL, DARBARI, and RÂY), 1944.
***s*-Benzoyl-4:5-methylenedioxybenzylhydrazine** (AGGARWAL, DARBARI, and RÂY), 1944.
Benzoylphenyl-*o*-tolylamine (GIBSON and JOHNSON), 2748.
***N*-Benzoylpiperazine** (MOORE, BOYLE, and THORN), 46.
4-Benzoylpiperazine-1-carboxylic acid, ethyl ester (MOORE, BOYLE, and THORN), 45.
Benzoylpyridines, nitro- (BRYANS and TURNER), 551.
***O*-Benzoylsyringic acid**, and its derivatives (HEAP and ROBINSON), 70.
9-Benzoyltetrahydrocarbazoles, chloro- and nitro- (PLANT and RUTHERFORD), 1974.
Benzoyl-*o*-tolyl-*m*-tolylamine (GIBSON and JOHNSON), 2748.
Benzoyl-*m*-tolyl-*p*-tolylamine (GIBSON and JOHNSON), 2748.
3-Benzpinacol, 2:2′-*di*chloro- (HATT), 1628.
Benzthiazole, 1-chloro-5-bromo- (DYSON, HUNTER, and SOYKA), 461.
Benzthiazoles, amino- (DYSON, HUNTER, and SOYKA), 458; (HUNTER and PRIDE), 943.
Benzylamine picrate (INGOLD and SHOPPEE), 1202.
Benzyldiethylamines, nitro-, and their salts (BENNETT and WILLIS), 264.
1-Benzyl-1:2-dihydrobenz*iso*thiazole, 2-thio- (MCCLELLAND, WARREN, and JACKSON), 1585.
Benzyldimethylamines, nitro-, and their salts (BENNETT and WILLIS), 264.
Benzylidene-*p*-aminoacetanilide, *di*nitro- (BENNETT and PRATT), 1467.
Benzylidene-*p*-aminophenol, *di*nitro- (BENNETT and PRATT), 1466.
Benzylidene-6-aminoquinoline, *di*nitro- (BENNETT and PRATT), 1467.
Benzylidene-3:5-*di*bromoaniline, *di*nitro- (BENNETT and PRATT), 1466.
Benzylidenebrucine hydrochloride (PERKIN and ROBINSON), 998.
Benzylidene-*m*-chloroaniline, *di*nitro- (BENNETT and PRATT), 1466.
1-Benzylidenecoumaran-2-one, 5:6-*di*hydroxy-, ethylcarbonato and toluenesulphonyl derivatives (PERKIN and STORY), 1420.
Benzylidene-*p*-iodoaniline, *di*nitro- (BENNETT and PRATT), 1466.
Benzylidene-*p*-methoxybenzylamine (INGOLD and SHOPPEE), 1202.
γ-Benzylidene-α-*iso*propylacetoacetic acid (HEILBRON and IRVING), 941.
Benzylidenestrychnine (PERKIN and ROBINSON), 997.
Benzylmalonic acid, -3-nitro-, and its ethyl ester (GULLAND, HAWORTH, and VIRDEN), 1671.
Benzylmethylamine, *p*-chloro- and *p*-cyano-, hydrobromides (BAKER), 1206.
9-Benzylmethylanthracenes, and 10-bromo- (BARNETT and GOODWAY), 1760.
2- and 4-Benzyloxydiphenylmethane (SHORT and STEWART), 556.
4-Benzylpenthian-4-ol, and its derivatives (BENNETT and WADDINGTON), 2832.
4-Benzylpenthian-4-ol oxides (BENNETT and WADDINGTON), 2835.
4-Benzyl-3-phenylcoumarin, 7-hydroxy- (BAKER and EASTWOOD), 2906.
Benzylpiperidines, oxidation of, and their benzoyl and benzenesulphonyl derivatives (BRYANS and PYMAN), 549.
Benzylpyridines, nitration of (BRYANS and PYMAN), 549.
***O*-Benzylsyringic anhydride** (HEAP and ROBINSON), 71.
Benzyltrimethylammonium bromide, and *m*-bromo- (BAKER and INGOLD), 438.
Benzyltrimethylphosphonium bromide (FENTON and INGOLD), 2353.
Beryllium *per*oxide (PERKINS), 1687.
2:6-Bis*tri*chloromethyl-4-*di*chloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylenes (CHATTAWAY and KELLETT), 2915.
Bis-1-chloro*cyclo*selenipentane 1-chloroplatinate (MORGAN and BURSTALL), 2201.
αδ-Bis-(6:7-dimethoxy-3:4-dihydro*iso*quinolyl-1-)butane, and its derivatives (CHILD and PYMAN), 2016.
αθ-Bis-(6:7-dimethoxy-3:4-dihydro*iso*quinolyl-1-)octane, and its derivatives (CHILD and PYMAN), 2020.
αε-Bis-(6:7-dimethoxy-3:4-dihydro*iso*quinolyl-1-)pentane, and its derivatives (CHILD and PYMAN), 2018.
αδ-Bis-(6:7-dimethoxy-2-methyltetrahydro*iso*quinolyl-1-)butane, and its hydrochloride (CHILD and PYMAN), 2018.

$\alpha\delta$-Bis-(6:7-dimethoxytetrahydro*iso*quinolyl-1-)butane, and its salts (CHILD and PYMAN), 2017.

$\alpha\epsilon$-Bis-(6:7-dimethoxytetrahydro*iso*quinolyl-1-)pentane, and its hydrochloride (CHILD and PYMAN), 2019.

Bis-(4-methoxystyryl *n*-hexyl ketone) (HEILBRON and IRVING), 935.

$\alpha\delta$-Bis-(6:7-methylenedioxy-3:4-dihydro-*iso*quinolyl-1-)butane, and its derivatives (CHILD and PYMAN), 2020.

Bismuth *tri*chloride, additive compound of, with hexamethylenetetramine (DUFF and BILLS), 417.

chromite (BRIGGS), 244.

Bis-*di*nitrobenzylidene-4:4′-*di*aminodiphenylamine (BENNETT and PRATT), 1467.

Bis-*di*nitrobenzylidene-*o*-phenylenediamine (BENNETT and PRATT), 1467.

Bis-*di*nitrobenzylidene-3:4-tolylenediamine (BENNETT and PRATT), 1467.

Bis-(4-*iso*propylstyryl *iso*butyl ketone) (HEILBRON and IRVING), 934.

Bis(styryl butyl ketones) (HEILBRON and IRVING), 933.

Bis(styryl *n*-heptyl ketone) (HEILBRON and IRVING), 935.

Bis(styryl hexyl ketones) (HEILBRON and IRVING), 935.

Bis(styryl ketones), formation of (HEILBRON and IRVING), 931.

Bis(styryl *n*-octyl ketone) (HEILBRON and IRVING), 936.

Bis(styryl *n*-propyl ketone) (HEILBRON and IRVING), 933.

2:4-Bistriphenylmethyl-1-naphthol (HARDY), 1006.

β-*d*-Bornylgalactoside, and its tetra-acetyl derivative (ROBERTSON), 1822.

Boron:—

Boric acids (GILBERT and LEVI), 527.

Borotartaric acid (BURGESS and HUNTER), 2838.

potassium salt (LOWRY), 2853.

Bromine, action of, on aliphatic acids (HUGHES and WATSON), 1945.

interaction of, with acetic anhydride (WATSON and GREGORY), 1373.

influence of light intensity on photochemical union of hydrogen and (BODENSTEIN, JOST, and JUNG), 1153.

Hydrobromic acid, velocity of interaction of *N*-chloroacetanilide and (RICHARDSON and SOPER), 1873.

Brucine (PERKIN and ROBINSON), 964.

Butadienes, cyclic, dibromides of (FARMER and SCOTT), 172.

Butadiene acids, cyano-, Guareschi's, constitution of (GIBSON and SIMONSEN), 1074.

***cyclo*Butane-1:1-dicarboxylic acid**, preparation of, and its disodium salt, and their dissociation constants (VOGEL), 1489.

***cyclo*Butane-1:2-dicarboxylimide** (MENON and SIMONSEN), 304.

Δ^{β}-Butenylmalonic acid, and its ethyl ester (ECCOTT and LINSTEAD), 2163.

***p*-*n*-Butoxybenzoic acid** (BRADFIELD and JONES), 2661.

***n*-Butyl alcohol**, equilibrium of, with acetone and water, and with water (JONES), 799.

Butyl alcohol, δ-chloro-, and its derivatives (BENNETT and HEATHCOAT), 272.

Butyl ethyl sulphide, δ-chloro- (BENNETT, HEATHCOAT, and MOSSES), 2570.

8-*n*-Butylamino-6-ethoxyquinoline, and its hydrochloride (BALDWIN), 2962.

8-*n*-Butylamino-6-methoxyquinoline, and 5-amino-, acetyl derivative (BALDWIN), 2961.

***tert.*-Butylbenzene**, *m*-amino-, acetyl derivative, nitration of (SHOESMITH and MACKIE), 476.

Butylchloral cyanohydrin (CHATTAWAY and IRVING), 1044.

1-Butyl*cyclo*selenibutane, 1-δ-bromo-, 1-bromide (MORGAN and BURSTALL), 1101.

3-*iso*Butyl-1:2:4-triazole, 5-amino-, nitrate (REILLY and MADDEN), 816.

Butyric acid, density of mixtures of water and (GRINDLEY and BURY), 679.

C.

Cadmium chromate (BRIGGS), 244.

*per*oxide (PERKINS), 1687.

Calcium chloride, improved tube for (HARDY), 1108.

additive compound of, with hexamethylenetetramine (DUFF and BILLS), 418.

Camphorsulphonic acid, and α-bromo-, menthylamine salts (READ, STEELE, and CARTER), 26.

Carbamide (*urea*), equilibrium of ammonium nitrate and (HOWELLS), 910.

4-Carbamylmethylamino-2-hydroxyphenylthioarsinous acid, di(carboxymethyl) ester (BARBER), 1023.

γ-*o*-Carbethoxyaminobenzoylbutyric acid (PLANT), 2498.

Carbethoxyethylenediamine, and its derivatives (MOORE, BOYLE, and THORN), 49.

***N′*-Carbethoxyethylenediamino-*N*-acetic acid**, ethyl ester (MOORE, BOYLE, and THORN), 51.

β-Carbethoxy-5-methoxyindole-3-propionic acids, ethyl esters (BARRETT, PERKIN, and ROBINSON), 2944.
Carbethoxy-*m*-nitrobenzodimethylamidoxime (BRADY and PEAKIN), 2271.
4-Carbethoxypiperazinoacetic acid, ethyl ester (MOORE, BOYLE, and THORN), 48.
4-Carbethoxypiperazino-γ-butyric acid, ethyl ester (MOORE, BOYLE, and THORN), 49.
4-Carbethoxypiperazino-β-propionic acid, ethyl ester (MOORE, BOYLE, and THORN), 49.
ω-Carbethoxytetramethylphosphonium hydroxide, and its picrate (FENTON and INGOLD), 2356.
δ-Carboline-3-carboxylic acid, 7-nitro- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2939.
Carbomethoxy-*m*-nitrobenzomethylethylamidoxime (BRADY and PEAKIN), 2271.
***l*-2-Carbomethoxy-3:4:6-trimethylmannonic acid** (HAWORTH and PEAT), 355.
Carbon, bivalency of (WARD), 1541.
and its oxides, equilibrium between (DENT and COBB), 1903.
chains, alternating effect in (BAKER and INGOLD), 423; (BAKER), 2257.
Carbon *tetra*bromide, interaction of, with selenium and sulphur (BRISCOE, PEEL, and ROWLANDS), 1766.
*mono*xide, infra-red emission spectrum of, burning in nitrous oxide (BAILEY and LIH), 54.
effect of addition of hydrogen and water to radiation emitted by (GARNER and ROFFEY), 1123.
decomposition of, in the electric discharge (LUNT and MUMFORD), 1711; (OTT), 2422.
sulphidoselenide, and its reactions with halogens (BRISCOE, PEEL, and ROBINSON), 56, 1048.
α-Carboxy-γ-acetyl-ββ-diethylbutyric acid, and its derivatives (QUDRAT-I-KHUDA), 1918.
α-Carboxy-γ-acetyl-ββ-dimethylbutyric acid, ring-chain tautomerism of (QUDRAT-I-KHUDA), 201.
α-Carboxy-γ-acetyl-β-methyl-β-ethylbutyric acid, and its derivatives (QUDRAT-I-KHUDA), 1916.
α-*o*-Carboxybenzamido-ββ-di-(4-methoxyphenyl)propionic acid, anhydride (HARINGTON and MCCARTNEY), 894.
α-*o*-Carboxybenzamido-ββ-diphenylpropionic acid, anhydride (HARINGTON and MCCARTNEY), 896.
1-β-*o*-Carboxybenzamidoethyl-6-methoxy-2-quinolone (SESHADRI), 2955.
β-*o*-Carboxybenzamidoethylquinolones (SESHADRI), 2953.
1-γ-*o*-Carboxybenzamidopropyl-6-methoxy-2-quinolone (SESHADRI), 2957.
1-γ-*o*-Carboxybenzamidopropyl-2-quinolone (SESHADRI), 2954.
***o*-Carboxybenzeneazo-3:6-disulpho-β-naphthyl** sodium sulphite (KING), 608.
2-Carboxy-*trans*-decahydronaphthalene-2-acetic acids, and their derivatives (RAO), 1965.
2′-Carboxy-3:4-dimethoxydiphenyl sulphide (ROBERTS and SMILES), 868.
2′-Carboxy-4-methoxydiphenyl sulphide (ROBERTS and SMILES), 867.
2′-Carboxy-5-methoxy-2-methyldiphenyl sulphide (ROBERTS and SMILES), 868.
6-Carboxy-3-methyl-*cis*-hexahydrophthalic acid (FARMER and WARREN), 906.
6-Carboxy-3-methyl-*cis*-Δ⁵-tetrahydrophthalic acid (FARMER and WARREN), 906.
2′-Carboxy-3-nitrodiphenylamine-4-arsinic acid (BARBER), 475.
4-Carboxyphenylarsinic acid, 2-bromo- and 2-chloro- (GIBSON and JOHNSON), 778.
***o*-Carboxyphenylmalonic acid**, ethyl ester (HURTLEY), 1872.
***d*-Δ³-Carene**, oxidation of, with chromic acid mixture (GIBSON and SIMONSEN), 305.
***d*-Δ⁴-Carene**, oxidation of, with chromic acid mixture (GIBSON and SIMONSEN), 909.
Caronimide (MENON and SIMONSEN), 304.
Caryophyllene series (HENDERSON, MCCRONE, and ROBERTSON), 1368.
Catalysis, acid and salt effects in (DAWSON and LOWSON), 393, 1217; (DAWSON, HOSKINS, and SMITH), 1884; (DAWSON and SMITH), 2530.
in three-carbon tautomerism (KON and LINSTEAD), 1269.
homogeneous, of gas reactions (GLASS and HINSHELWOOD), 1815.
Catalytic hydrogenation of unsaturated compounds (LEBEDEV and YAKUBCHIK), 220.
Cereals, amylases of (BAKER and HULTON), 1655.
Cerotic acid, heat of crystallisation of (GARNER and KING), 1859.
Cetyl barium, calcium, and dihydrogen phosphates (PLIMMER and BURCH), 280.
Charcoal, pure, adsorption of fumaric and maleic acids by (PHELPS), 1724.
combustion of, in oxygen, nitric oxide, and nitrous oxide (SHAH), 2661, 2676.

Chemical constitution. See under Constitution.
Chloral, compounds of thioparaldehyde type from (CHATTAWAY and KELLETT), 2908.
sulphydrate, preparation of (CHATTAWAY and KELLETT), 2912.
Chlorine, mean life of catalyst in photochemical union of hydrogen and (CHAPMAN and GRIGG), 2426.
Hydrochloric acid, density, viscosity, and conductivity of solutions of, and its mixtures with cobalt chloride (HOWELL), 162.
influence of ethyl ether and of dimethylpyrone on availability of, in alcoholic solutions (MITCHELL and PARTINGTON), 1562.
Cholesterilene, constitution of (BOSE and DORAN), 2244.
Cholesteryl barium and dihydrogen phosphates (PLIMMER and BURCH), 282, 296.
ethyl ether (PLIMMER and BURCH), 296.
Cholesterylxanthic acid, methyl ester (BOSE and DORAN), 2246.
Chromatocobaltiammines. See under Cobalt bases.
Chromium:—
Chromates, preparation of (BRIGGS), 242.
Chromone group, synthesis in (VENKATARAMAN), 2219.
Cinchomeronic acid, dyes from (TEWARI), 1642.
Cinnamaldehyde, 2-chloro-5-nitro-*p*-toluenesulphonhydrazone (DANN and DAVIES), 1053.
9-Cinnamoyl-10:10-*di*hydroxyhexahydrocarbazole (PLANT and RUTHERFORD), 1975.
9-Cinnamoyltetrahydrocarbazole, and 5-nitro- (PLANT and RUTHERFORD), 1975.
n- and *iso*-**Clovenes**, and their salts (HENDERSON, MCCRONE, and ROBERTSON), 1368.
*iso***Clovene alcohol** (HENDERSON, MCCRONE, and ROBERTSON), 1372.
Coagulation, formation of Liesegang rings in (HEPBURN), 213
formation of periodic structures by (HEDGES), 2779.
Coal, composition of (HOLROYD and WHEELER), 633.
bituminous, cuticles from (LEGG and WHEELER), 2452.
Cobalt, co-ordination number of (BRIGGS), 685.
Cobalt bases (*cobaltammines*) (PERCIVAL and WARDLAW), 1317.
Cobalt bases:—
Chromatocobaltiammines (BRIGGS), 685.
Dichromatotetramminecobaltiates (BRIGGS), 685.
Cobalt chloride, density, viscosity, and conductivity of hydrochloric acid solutions of (HOWELL), 162.
chromate (BRIGGS), 244.
Cobalt organic compounds, polynuclear complex (PERCIVAL and WARDLAW), 2628.
with $\beta\beta'\beta''$-triaminotriethylamine (MANN), 409.
Cobaltous halides, compounds of, with pyridine, quinaldine, and quinoline (PERCIVAL and WARDLAW), 1505.
Colloids, electrokinetic potential in relation to coagulation of (GHOSH), 2693.
influence of, on precipitation of salts (DICKINSON), 358.
Colour and constitution (HODGSON and COOPER), 231.
Colouring matters. See Gossypetin, Morin, Quercetagetin.
Compounds, chelate co-ordination, singlet linkages in (SUGDEN), 316.
conjugated, properties of (FARMER and SCOTT), 172; (FARMER and WARREN), 897.
cyclic. See Cyclic compounds.
Conjugated compounds. See under Compounds.
Constitution, chemical, and rotatory power (BURGESS and HUNTER), 2838.
and the parachor (SUGDEN), 316; (HENLEY and SUGDEN), 1058; (SUGDEN and WILKINS), 1291; (GARNER and SUGDEN), 1298.
and colour (HODGSON and COOPER), 231.
and trypanocidal activity (EVERETT), 670.
Copper, electrodeposition of, from its complex cyanide solutions (GLASSTONE), 702.
Copper salts, complex (RILEY), 1307.
Copper chromate (BRIGGS), 244.
Cupric chloride and sulphate, additive compounds of, with hexamethylenetetramine (DUFF and BILLS), 419.
nitrite, ammine derivatives of (KING), 2593.
Cuprous sulphide, reaction between ferric sulphate solutions and (WHITBY), 60.
Corrosion, mechanism of (EVANS), 111.
origin of currents of (EVANS), 92.

Coumarin, photobromination of (WILLIAMS), 1383.
Creatinine picrate, red isomeride of, and its constitution (ANSLOW and KING), 1210.
p-**Cresol**, 2-substituted derivatives of (COPISAROW), 251.
Cresols, action of, with basic tellurium chloride (MORGAN and BURGESS), 2214.
Crystals, liquid, apparent formation of (BRADFIELD and JONES), 2660.
Cutin, and its oxidation products (LEGG and WHEELER), 2445.
fossil, constituents of (LEGG and WHEELER), 2451.
Cyanine dyes (HAMER), 2598.
Cyanogen :—
Hydrocyanic acid, potassium salt, action of, on chloroaldehydes (CHATTAWAY and IRVING), 1038.
Cyanides, complex, polarisation in solutions of (GLASSTONE), 690, 702.
Cyclic compounds, synthesis of (VOGEL), 721.

D.

Decahydronaphthalenes, *β*-substituted stereoisomeric (RAO), 1954.
$\Delta^{2:3(1:2)}$-*trans*-**Decahydronaphthalene-2-acetonitrile** (RAO), 1964.
cis- and *trans*-**Decahydronaphthalene-2:2-diacetanilic acids** (RAO), 1963, 1968.
cis- and *trans*-**Decahydronaphthalene-2:2-diacetic acids**, and their derivatives (RAO), 1962, 1968.
cis- and *trans*-**Decahydronaphthalene-2:2-*di*cyanoacetic acids**, *ω*-imides (RAO), 1961, 1967.
α-$\Delta^{2:3(1:2)}$-*trans*-**Decahydronaphthalene-2-propionic acid**, *α*-cyano-, ethyl ester (RAO), 1964.
trans-**Decahydro-*β*-naphthylidenecyanoacetic acid**, ethyl ester (RAO), 1963.
α-*trans*-**Decahydronaphthylidene-2-propionitrile** (RAO), 1964.
Decalins. See Decahydronaphthalenes.
cis- and *trans*-*β*-**Decalones** (RAO), 1961, 1967.
Decane-1:10-dicarboxydi-*β*-phenylethylamide (CHILD and PYMAN), 2015.
Decane-1:10-dicarboxydi-*β*-veratrylethylamide (CHILD and PYMAN), 2016.
Dehydroacetophenone-*mm*′-dinitrobenzil (BOGN and NISBET), 1902.
Desyl chloride, displacement of chlorine from (WARD), 1541.
1:6-Diaceto-*β*-naphthalide, 1:6-*di*nitro- (BELL), 2784.
Diacetone alcohol, action of magnesium 9-fluorenyl bromide on (MAITLAND and TUCKER), 2559.
Diacetyl-*o*-aminomethylaniline (PHILLIPS), 2824.
1:3-Diacetylpurpurin (PERKIN and STORY), 1415.
Dialkyltelluronium *di*halides, supposed isomerism of (DREW), 560.
4:4′-Dianilinoarsenobenzene, 3:3′-*di*amino-, and its diacetyl derivative (BARBER), 475.
3:5-Dianilinobenzene, 2:4:6-*tri*nitro-1-amino- (FLÜRSCHEIM and HOLMES), 336.
Dianilinocupric nitrite (KING), 2597.
Dianthranol, 2:2′-*di*iodo-3:3′-*di*hydroxy-, and *octa*hydroxy-, acetyl derivatives (HARDACRE and PERKIN), 190.
1:1′-Dianthranolyl, 2:2′-*di*hydroxy-, and its tetra-acetyl derivative (HARDACRE and PERKIN), 187.
iso-**Dianthranyl** (BARNETT and GOODWAY), 814.
Dianthraquinone, 2:2′-*di*iodo-3:3′-*di*hydroxy- (HARDACRE and PERKIN), 191.
Dianthraquinonyls, *di*hydroxy-, and their diacetyl derivatives (HARDACRE and PERKIN), 186.
Dianthrone, 2:2′-*di*iodo-3:3′-*di*hydroxy-, and 3:4:6:3′:4′:6′-*hexa*hydroxy-, and their acetyl derivatives (HARDACRE and PERKIN), 190.
Diaquodimalonatocupric acid, sodium salt (RILEY), 1810.
Diaquodioxalatocupric acid, sodium salt (RILEY), 1309.
Diaryl ethers, scission of, by means of piperidine (GROVES, TURNER, and SHARP), 512.
Diazo-compounds, aliphatic, volatility and structure of (SIDGWICK), 1108.
5-Diazo-3-ethyl-1:2:4-triazole chloroaurate (REILLY and MADDEN), 816.
Diazonium salts of the triazole series, stability of (REILLY and MADDEN), 815.
Dibenzenesulphon-*o*′-nitroanilide, *di*-*m*-nitro- (BELL), 2788.
Dibenzoctdiazines (LE FÈVRE), 733.
NN′-**Dibenzoylhydrazine**, *di*-*p*-nitro- (DANN and DAVIES), 1055.
Dibenzylarsinic acid, *di*-*p*-nitro- (CHALLENGER and PETERS), 2618.
3:4-Dibenzylcoumarin, 7-hydroxy- (BAKER and EASTWOOD), 2906.
Dibenzylmethylamine, *di*-*p*-cyano-, hydrochloride (BAKER), 1206.
2:6-Dibenzyloxy-*p*-benzoquinone (BAKER, NODZU, and ROBINSON), 77.

2:6-Dibenzyloxy-1:4-dimethoxybenzene (BAKER, NODZU, and ROBINSON), 78.

2:6-Dibenzyloxyquinol (BAKER, NODZU, and ROBINSON), 77.

Dibenzylphenols, and their derivatives (SHORT and STEWART), 555.

Dibenzylphosphinic acid, *di-p*-nitro- (CHALLENGER and PETERS), 2616.

$\alpha\alpha'$-Dicarbamyl-*cis*- and -*trans*-decahydronaphthalene-2:2-diacetic acids, ω-imides (RAO), 1961, 1967.

3:6-Dicarbethoxy-Δ^3-tetrahydrophthalic anhydride (FARMER and WARREN), 904.

***pp'*-Dicarbiminoarsenobenzene**, *pp'-di*-thio- (EVERETT), 675.

***pp'*-Dicarbiminophenylarsenic** *sesqui*-sulphide, *pp'-di*thio- (EVERETT), 674.

1:3-Dicarbonyl compounds, chemistry of (BARDHAN), 2223.

3:6-Dicarboxyhexahydrophthalic acid, and its derivatives (FARMER and WARREN), 905.

Dicetyl barium and sodium phosphates (PLIMMER and BURCH), 281.

Dicetylphosphoryl chloride (PLIMMER and BURCH), 281.

Dicholesteryl barium and hydrogen phosphates (PLIMMER and BURCH), 283.

Dichromatotetramminecobaltiates. See under Cobalt bases.

Di-(2:5-dimethoxyanilino)aceto-2:5-dimethoxyanilide (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2927.

Di(2:5-dimethylphenyl)acetonitrile, *di*-4-hydroxy- (CLEMO, HAWORTH, and WALTON), 2376.

Diethyl ammonium phosphate (PLIMMER and BURCH), 297.

barium phosphate, and *di*-β-hydroxy- (PLIMMER and BURCH), 284, 294.

sulphide, *ββ'-di*chloro-, chlorination products of (PHILLIPS, DAVIES, and MUMFORD), 535.

sulphides, *tetra-*, *hexa-*, and *hepta*-chloro- (PHILLIPS, DAVIES, and MUMFORD), 545.

m-Diethylaminophenolcinchomeronein (TEWARI), 1643.

Diethylbenzthio-ψ-cyanine iodides (HAMER), 2604.

Diethyl-γ-chloroallylamine, and its salts (INGOLD and ROTHSTEIN), 11.

Diethyldibenzthiocarbocyanine bromides and iodides (HAMER), 2605.

ββ-Diethyl-Δγ-hexenoic acid, δ-hydroxy-, lactone (QUDRAT-I-KHUDA), 1920.

12:7-Dihydro*iso*acenaphthabenzarsazine, 7-bromo- and 7-chloro- (GIBSON and JOHNSON), 1621.

1:2-Dihydrobenz*iso*thiazoles, 2-thio-, formation and stability (MCCLELLAND, WARREN, and JACKSON), 1582.

Dihydroergosterols, isomeric, and their acetates (HEILBRON, JOHNSTONE, and SPRING), 2248.

Dihydro-ψ-ionone (HEILBRON, OWENS, and SIMPSON), 881.

Dihydropentindole, derivatives of (PLANT), 2493.

Dihydropentindoles, *mono-* and *di*-nitro-, and their derivatives (PLANT), 2495.

Dihydropentindole-8-carboxylic acid, ethyl ester (PLANT), 2497.

5:10-Dihydrophenarsazine, 2:4:6:8-10-*penta*bromo- (ELSON, GIBSON, and JOHNSON), 1087.

10-chloro-, and its derivatives (GIBSON and JOHNSON), 767, 1229, 1473, 2743; (ELSON, GIBSON, and JOHNSON), 1080.

Dihydrostrychnic acid, and its hydrochloride (PERKIN and ROBINSON), 984.

Dihydrostrychnidine (B), and its derivatives (PERKIN and ROBINSON), 964.

Dihydrostrychnidine (C) (PERKIN and ROBINSON), 986, 995.

Dihydrostrychnine (B), and its derivatives (PERKIN and ROBINSON), 981.

Dihydrozymosterol, and its acetate (HEILBRON and SEXTON), 2257.

2:5-Diketo-3:6-diacetoxybenzylidenepiperazines (DICKINSON and MARSHALL), 1495.

2:5-Diketo-3:6-di-*o*-ethoxybenzylidenepiperazine (DICKINSON and MARSHALL), 1496.

2:5-Diketo-3:6-di-*o*-methoxybenzylidenepiperazine (DICKINSON and MARSHALL), 1496.

β-Diketones, condensation of, with cyanoacetamide (BARDHAN), 2226.

3:4-Dimethoxy-2'-aldehydrostilbene, α-cyano-2-nitro-, and its phenylhydrazone (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1673.

2:5-Dimethoxyaniline, preparation of, and 4-bromo- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2927.

2:5-Dimethoxyanilinoacetamide (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2929.

2:5-Dimethoxyanilinoacetonitrile (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2928.

5:4'-Dimethoxy-1-anilinobenzthiazole, *di*bromo- (DYSON, HUNTER, and SOYKA), 465.

2:3-Dimethoxybenzaldehyde, 5-cyano- (CHAKRAVARTI and PERKIN), 195.

2:4-Dimethoxybenzoic anhydride (ROBINSON and VENKATARAMAN) 62

2:3-Dimethoxybenzonitrile (BAKER and EASTWOOD), 2907.

***O*-2:4-Dimethoxybenzoyl-*O*-acetylmorin 3:2′:4′-trimethyl ether** (ROBINSON and VENKATARAMAN), 64.

3′:4′-Dimethoxybenzyl-6-methoxy-2-methyltetrahydro*iso*quinoline, 1-α-cyano-2′-nitro- (GULLAND and VIRDEN), 1799.

1:3-Dimethoxy-4:6-bistriphenylmethylbenzene (HARDY), 1005.

3:4-Dimethoxy-2′-*m*-carboxyphenyliminomethylstilbene, α-cyano-2′-nitro- (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1674.

2:3-Dimethoxycinnamic acid, 5-amino-, 5-cyano-, and 5-nitro-, and its methyl ester (CHAKRAVARTI and PERKIN), 194.

3:4-Dimethoxycinnamic acid, 2-nitro-α-amino-, benzoyl derivative (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2932.

3:3′-Dimethoxydianthrone, 4:4′-*di*hydroxy- (PERKIN and STORY), 1419.

6:7-Dimethoxydioxindole (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2934.

2′:4′-Dimethoxydiphenyl-2-carboxylic acid (HURTLEY), 1873.

2′:4′-Dimethoxyflavone, 5:7-*di*hydroxy- (ROBINSON and VENKATARAMAN), 65.

6:7-Dimethoxyisatin, and its semicarbazone (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2924.

3:4-Dimethoxymandelic acid, 2-nitro- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2935.

6:7-Dimethoxyoxindole (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2934.

3:10-Dimethoxyoxyprotoberberine (CHAKRAVARTI and PERKIN), 200.

3:4-Dimethoxyphenylacetamide, 2-nitro- (GULLAND and VIRDEN), 1803.

3:4-Dimethoxyphenylacetic acid, 2-amino- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2934.

3′:4′-Dimethoxyphenylaceto-β-2:3-dimethoxyphenylethylamide, 6′-nitro- (CALLOW, GULLAND, and HAWORTH), 663.

3′:4′-Dimethoxyphenylaceto-*p*-4-methoxyphenylethylamide, 2′-nitro- (CALLOW, GULLAND, and HAWORTH), 1449.

3:4-Dimethoxyphenylacetonitrile, 2-nitro-, anhydro-compounds from (GULLAND and VIRDEN), 1791.

3′:4′-Dimethoxyphenylaceto-β-3-(2″-nitro-3″:4″-dimethoxyphenylacetamido)-4-methoxyphenylethylamide, 2′-nitro- (CALLOW, GULLAND, and HAWORTH), 1454.

3′:4′-Dimethoxyphenylaceto-β-3-(2″-nitro-3″:4″-dimethoxyphenylacetamido)phenylethylamide, 2′-nitro- (GULLAND, HAWORTH, and VIRDEN), 1672.

3′:4′-Dimethoxyphenyl-(3-amino-4-methoxy-β-phenylethylamino)acetylene, 2′-nitro-, and its picrate (CALLOW, GULLAND, and HAWORTH), 1454.

2:3-Di-*p*-methoxyphenylbenzo-γ-pyrone, 7-hydroxy- (BAKER and EASTWOOD), 2904.

3′:4′-Dimethoxy-3-phenylcoumarin, 5:7-*di*hydroxy-, and its diacetyl derivative (BAKER), 1599.

4:6-Dimethoxyphenyl 2:4-dimethoxystyryl ketone, 2-hydroxy- (CULLINANE and PHILPOTT), 1763.

Di-[α-*p*-methoxyphenylethyl]dimethylammonium bromide (E. and E. STEDMAN), 614.

3′:4′-Dimethoxyphenyl-(β-4-methoxyphenylethylamino)acetylene, 2′-nitro- (CALLOW, GULLAND, and HAWORTH), 1449.

Di-(4-methoxyphenyl)methylphthalimidomalonic acid, ethyl ester (HARINGTON and MCCARTNEY), 893.

6:7-Dimethoxy-1-phenylphthalazine (AGGARWAL, DARBARI, and RÂY), 1942.

β-3:4-Dimethoxyphenylpropionic acid, ethyl and methyl esters (CHILD and PYMAN), 2014.

3:4-Dimethoxyphenyl 3:4:5-trimethoxybenzyl ketone, 2:6-*di*hydroxy- (BAKER and ROBINSON), 158.

Dimethoxypropane, *p*-nitrohydroxy-, benzoyl derivative (FAIRBOURNE), 1152.

αγ-Di-(6-methoxy-8-quinolylamino)propane (BALDWIN), 2962.

2:5-Dimethoxyresorcinol (BAKER, NODZU, and ROBINSON), 78.

3:4-Dimethoxystilbene, α-cyano-2-nitro- (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1673.

3:10-Dimethoxytetrahydroprotoberberine, synthesis of (CHAKRAVARTI and PERKIN), 196.

Dimethoxythioxanthones, and their salts (ROBERTS and SMILES), 870, 1326.

Dimethyl *per*oxide, *s-di*hydroxy- (KING), 748.

Dimethylamine, action of nitrous acid on (TAYLOR and PRICE), 2052.

***o*-Dimethylaminobenzoic acid, *l*-menthyl ester** (RULE and MACGILLIVRAY), 407.

Dimethylaminobenzoic acids, *d*-β-octyl esters (RULE, MILES, and MACGILLIVRAY), 2279.

5-Dimethylamino-1:2-dimethylbenziminazole methosulphate (PHILLIPS), 2825.

p-Dimethylaminostyrylnaphthathiazole ethiodides (HAMER), 2606.

4:4′-Dimethylamino-2:5:2′:5′-tetramethoxydiphenylmethane, 4:4′-*di*cyano- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2929.

Dimethylaniline, parachor of salts of (SUGDEN and WILKINS), 1297.
interaction of tellurium tetrachloride with (MORGAN and BURGESS), 1103.
action of nitrous acid on derivatives of (MACMILLAN and READE), 2863.

9:9-Dimethylanthracene, and *mono-* and *di*-bromo-derivatives (BARNETT and GOODWAY), 1758.

Dimethylanthracenes (MORGAN and COULSON), 2203.

2:7-Dimethylanthraquinone (MORGAN and COULSON), 2210.

1:2-Dimethylbenziminazole (PHILLIPS), 2825.

ε′-Dimethylbenzophenone-6-carboxylic acid (MORGAN and COULSON), 2558.

3:5-Dimethylbenzthiazole, 1-amino-, mobility of, and its derivatives (HUNTER and PRIDE), 943.

Dimethylbenzthio-ψ-cyanine iodides (HAMER), 2603.

1:6-Dimethyl-1:2:3-benztriazole, 5-nitro- (BRADY, DAY, and REYNOLDS), 2265.

2:5-Dimethylcinnamic acid, 4-hydroxy-, and its acetyl derivative (CLEMO, HAWORTH, and WALTON), 2376.

Dimethyldibenzthiocarbocyanine iodides (HAMER), 2604.

Dimethyl-5:10-dihydrophenarsazines, 10-bromo- and 10-chloro- (GIBSON and JOHNSON), 2749.

Dimethyldiphenyl telluri*di*chlorides, *di*hydroxy- (MORGAN and BURGESS), 2217.

Di-2-methyldiphenyl telluride, *di*-4-hydroxy- (MORGAN and BURGESS), 2219.

Dimethyldiphenylamine-6′-arsinic acids (GIBSON and JOHNSON), 2750.

4:6-Dimethyl-5-ethyl-2-pyridone, and 3-cyano- (BARDHAN), 2231.

Dimethyl-9-fluorylamine, and its picrate (INGOLD and JESSOP), 2861.

ββ-Dimethylglutaric acid, ethyl hydrogen ester (QUDRAT-I-KHUDA), 208.

Dimethylglyoxime, dimethylquinoxaline derivative of (HENDERSON), 466.

ββ-Dimethylhexoamide, δ-amino-δ-hydroxy-α-cyano- (QUDRAT-I-KHUDA), 206.

Dimethyl-lupinines, chloro- (CLEMO and RAPER), 1934.

2:3-Dimethyl methylxyloside (HAMPTON, HAWORTH, and HIRST), 1747.

2:3-Dimethylnaphthaquinoxaline (HENDERSON), 468.

4:8-Dimethylnonaldehyde (HEILBRON and THOMPSON), 892.

4:8-Dimethylnonoic acid, and its amide (HEILBRON and THOMPSON), 891.

Dimethyloxysparteine methiodide (CLEMO and RAPER), 1940.

Dimethylphenarsazinic acids, and their hydrochlorides (GIBSON and JOHNSON), 2749.

***N*-2:4-Dimethylphenylbenziminochloride** (GIBSON and JOHNSON), 2747.

β-2:4-Dimethylphenylpropionic acid, and its nitrile (CLEMO, HAWORTH, and WALTON), 2375.

4:4-Dimethyl-2-piperidone (MENON and SIMONSEN), 304.

1:6-Dimethyl-2-pyridone-4-carboxylic acid, 3-cyano-, ethyl ester (BARDHAN), 2227.

Dimethylpyrone, effect of, on esterification by hydrochloric acid (MITCHELL and PARTINGTON), 1562.

2:3-Dimethylquinoline, preparation of (PLANT and ROSSER), 1864.

2:3-Dimethylquinoxaline, 5:6:7:8-*tetra*-bromo- (HENDERSON), 468.

Dimethyl rhamnonamide (HAWORTH, HIRST, and MILLER), 2477.

Dimethyl rhamnonolactone (HAWORTH, HIRST, and MILLER), 2477.

3:4-Dimethyl rhamnose (HAWORTH, HIRST, and MILLER), 2475.

α-Dimethyltelluronium salts (LOWRY and GILBERT), 2082.

5:8-Dimethyl-1:2:3:4-tetrahydronaphthyl-2-acetic acid, 7-hydroxy-. See Norsantonous acid.

4:5-Dimethyl-*cis*-Δ⁴-tetrahydrophthalic acid, and its anhydride (FARMER and WARREN), 902.

2:3-Dimethyl-1:2:3:4-tetrahydroquinoline, derivatives of (PLANT and ROSSER), 1865.

Di-2-methylthioldibenzoylethylenediamine (MCCLELLAND and WARREN), 2625.

Dimethyl xylan (HAMPTON, HAWORTH, and HIRST), 1746.

2:3-Dimethyl γ-xylonolactone, and its derivatives (HAMPTON, HAWORTH, and HIRST), 1749.

2:3-Dimethyl xylose, and its anilide (HAMPTON, HAWORTH, and HIRST), 1748.

Dinaphthyl sulphides, *di*-1-bromo- and 1-bromo-2′-hydroxy-, and its acetyl derivative (COHEN and SMILES), 211.

Di-β-naphthylaminocupric nitrite (KING), 2597.
Dioxydihydrostrychnic acid (B) (PERKIN and ROBINSON), 984.
Diphenic acid, benzyl and naphthyl hydrogen esters (LE FÈVRE), 737.
Diphenoxy*di*chlorosilicane (THOMPSON and KIPPING), 1177.
Diphenyl, and its nitro-derivatives, nitration of (GULL and TURNER), 491.
Diphenyl, 4:4'- and 5:5'-*di*bromo-2:2'-*di*amino-, and their derivatives (LE FÈVRE), 736.
4-chloro-4'-bromo-, and its action with nitric acid (GROVES and TURNER), 511.
di- and *tri*-nitro-derivatives (GULL and TURNER), 495.
Diphenyl barium phosphate (PLIMMER and BURCH), 296.
ethers, amino-, bromoamino-, bromoiodo-, bromonitro-, bromonitroamino-, chloroamino-, chloronitro-, chloronitroamino-, *mono*- and *di*-iodo-, iodoamino-, iodonitro-, iodonitroamino-, and nitroamino-, and their derivatives (SCARBOROUGH), 2361.
*tri*chloro- and *di*-, *tri*-, and *tetra*-chloro-amino- and -nitro-derivatives (GROVES, TURNER, and SHARP), 520.
selenides, parachors of (HENLEY and SUGDEN), 1063.
selenoxide, parachor of (HENLEY and SUGDEN), 1064.
Diphenyl series (GULL and TURNER), 491; (LE FÈVRE), 733.
Diphenylamine, 4:2-*di*amino-, 2-acetyl derivative (PHILLIPS), 2822.
tri-, *tetra*-, and *hexa*-chloro-, and benzoyl derivatives of the tetrachloro-compounds (CHAPMAN), 570.
Diphenylamines, substituted, preparation of (CHAPMAN), 569.
Diphenylamine-4-arsinic acids, *mono*- and *di*-amino-, aminohydroxy-, *mono*- and *di*-nitro-, and nitrohydroxy- and their derivatives (BARBER), 473.
2:2'-Diphenylaminodiphenyl, 2:2'-*di*-2'':4''-*di*nitro- (LE FÈVRE), 737.
2:3-Diphenylbenzo-γ-pyrone, 6-hydroxy- and 5:7-*di*hydroxy- (BAKER and EASTWOOD), 2901.
Diphenylcarbamide-*pp'*-diarsinic acid (EVERETT), 678.
Diphenyl-2-carboxylic acid, 2' 4'-*di*hydroxy-, lactone (HUNTLEY), 1872.
Diphenyl-4-carboxylic acid, preparation and nitration of (GULL and TURNER), 498.
Diphenylchloroarsine, parachor of (HENLEY and SUGDEN), 1063.
2:2'-Diphenyl-4:5-dihydroglyoxaline, *ωω'-di*thio-, and its dihydrobromide (MCCLELLAND and WARREN), 2626.
4:4'-Diphenyldimethyl*di*aminodiphenyl telluri*di*chloride (MORGAN and BURGESS), 1105.
Diphenyldi-*o*-tolylpinacol, rearrangement of (HATT), 1632.
Diphenylene 3:3'-disulphate, 4:4'-*di*amino-, hydrogen and potassium derivatives (BURKHARDT and WOOD), 150.
ββ-Diphenylethylamine, ββ-*di*-4-hydroxy-, and its tribenzoyl derivative, and ββ-*di*-(3:5-*di*iodo-4-hydroxy)- (HARINGTON and MCCARTNEY), 895.
ββ-Diphenylethyltri-*n*-butylphosphonium hydroxide, preparation and decomposition of (FENTON and INGOLD), 2354.
Diphenylhydroxyethylamines, optically active, and their salts and derivatives (READ, CAMPBELL, and BARKER), 2305.
***d*-*iso*Diphenylhydroxyethylamino-*d*-methylenecamphor** (READ, CAMPBELL, and BARKER), 2312.
Diphenylmethane, 2- and 4-hydroxy- (SHORT and STEWART), 555.
Diphenylmethylphthalimidomalonic acid, ethyl ester (HARINGTON and MCCARTNEY), 896.
2:3-Diphenyl-5-methylquinoxaline, 2:3-*di*-*m*-nitro- (BOON and NISBET), 1901.
β3-Diphenylpropionic acid, α-amino-, α-amino-ββ-*di*-4-hydroxy-, and α-amino-ββ-*di*-(3:5-*di*iodo-4-hydroxy)- (HARINGTON and MCCARTNEY), 894.
2:3-Diphenylquinoxaline, 2:3-*di*-*m*-nitro- (BOON and NISBET), 1901.
Diphenylsuccinic anhydrides, optically active, action of water and bases on (WREN and WRIGHT), 138.
***d*-Diphenylsuccin-α- and -β-naphthils** (WREN and WRIGHT), 136.
***l*-Diphenylsuccin-β-naphthylamic acid** (WREN and WRIGHT), 140.
γ-Diphenylsuccin-α- and -β-naphthylamic acids, resolution of (WREN and WRIGHT), 136.
Diphenylsulphone, 4-chloro-4'-bromo-, nitration of (GROVES and TURNER), 509.
2:3-Diphenyl-1:2:3:4-tetrahydroquinolines, and their derivatives (PLANT and ROSSER), 1868.
***s*-Diphenylthiocarbamide**, *di*-*p*-bromohydro*penta*bromide (DYSON, HUNTER, and SOYKA), 460.

Diphenylthiocarbamide-*pp'*-arsenic *sesqui*sulphide (EVERETT), 675.
Diphenylthiocarbamide-*pp'*-diarsinic acid (EVERETT), 676.
Diphenyl-*p*-tolylbenzenylamidines, isomeric (CHAPMAN), 2136.
13:14-(*oo'*-Diphenylylene)dibenzocta-12:15-diazine, and 3:8-*di*bromo- (LE FÈVRE), 736.
Diphenylyl-4-hydroxytriphenylmethane (HARDY), 1009.
Diphthalatodiaquocupric acid, sodium salt (RILEY), 1310.
Diphthalimidoacetoxypropane (FAIRBOURNE and COWDREY), 133.
Diphthalimidobenzoyloxypropane (FAIRBOURNE and COWDREY), 134.
αε-Diphthalimidopentane (BALDWIN), 2963.
Di-*n*-propyl barium phosphate and pyrophosphate (PLIMMER and BURCH), 295.
sulphide, chloro- (BENNETT, HEATHCOAT, and MOSSES), 2571.
γ-hydroxy-, and its phenylurethane (BENNETT and HEATHCOAT), 271.
Di*iso*propyl ether, decomposition of (GLASS and HINSHELWOOD), 1810, 1815.
Dipyridinium cobaltous halides (PERCIVAL and WARDLAW), 1508.
Dipyridinocupric salts (KING), 2595.
Diquinaldinium cobaltous halides (PERCIVAL and WARDLAW), 1508.
Diquinolinium cobaltous halides (PERCIVAL and WARDLAW), 1507.
2:2'-Disalicylideneaminodiphenyl (LE FÈVRE), 736.
Dispersion, rotatory, of organic compounds (LOWRY), 2853, 2858.
influence of solvents and other factors on, of optically active compounds (PATTERSON and LAWSON), 2042.
Dissociation constants of organic acids (VOGEL), 1476, 1487.
of isomeric oximes (BRADY and CHOKSHI), 946.
2:4-Distyrylquinoline, *tetra*nitro- (BENNETT and PRATT), 1467.
Disulphoxides, stereoisomerism of (BELL and BENNETT), 15.
Dithiocyanato*tri*aminotriethylenediaminecobaltic salts (MANN), 410.
Di-*p*-toluenesulphonnitroanilides (BELL), 2788.
Di-*p*-toluenesulphon-1:8-*di*nitro-β-naphthalide (BELL), 2789.
Di-*p*-toluidinocupric nitrile (KING), 2597.
Di-*p*-tolyldi-*o*-tolylpinacol (HATT), 1631.
Di-*p*-tolylsilicon *di*chloride, preparation of (STEELE and KIPPING), 2546.
Di-*p*-tolyl-*o*-tolylchloromethane (HATT), 1630.
Drude's equation, validity of (LOWRY), 2858.
Drying, intensive, manipulation in (BAKER), 1661.
influence of, on inner equilibria (SMITS, SWART, and BRUIN), 2712.
of gases (BONE), 1664.
Dyes from cinchomeronic acid (TEWARI), 1642.

E.

Earths, rare, fractionation of bromates of (MARSH), 2387.
Electrolysis, periodic processes in (HEDGES), 1028.
Electrolytic polarisation. See under Polarisation.
Equilibria, inner, influence of intensive drying on (SMITS, SWART, and BRUIN), 2712.
Ergosta-dienones, and their semicarbazones (HEILBRON, JOHNSTONE, and SPRING), 2254.
Ergosterol, isomerides of (HEILBRON, SEXTON, and SPRING), 926.
acetylation and catalytic hydrogenation of (HEILBRON and SEXTON), 921.
Ergosterol *D* and ***E*** (HEILBRON, JOHNSTONE, and SPRING), 2253.
***iso*Ergosterols**, reactions of, and their acetates (HEILBRON and SPRING), 2807.
Erythrose, oxidation of (DEULOFEU and SELVA), 227.
Ethers, unimolecular decomposition of, in the gaseous state (GLASS and HINSHELWOOD), 1804.
Ethoxide, thallium, parachor of (SUGDEN), 325.
Ethoxybenziminazole-2-propionic acid, and its derivatives (CHATTERJEE), 2967.
β-Ethoxybenziminazolylethylamine *di*hydrochloride (CHATTERJEE), 2968.
4-Ethoxy-4-*tri*chloromethyl-2:6-bis*di*chloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2916.
β-Ethoxy*iso*hexoic acid, ethyl ester (LINSTEAD), 2509.
1-Ethoxy*cyclo*hexylacetic acid, silver salt and ethyl ester (KON and LINSTEAD), 1282.
1-Ethoxy*cyclo*hexylacetone, and its semicarbazone (KON and LINSTEAD), 1276.

4-Ethoxy-3-methyltetraphenylmethane (HARDY), 1009.
4-Ethoxysuccinanilic acid, 2-nitro- (CHATTERJEE), 2967.
4-Ethoxytetraphenylmethane (HARDY), 1004.
4-Ethoxy-2:4:6-tris*tri*chloromethyl-*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2916.
Ethyl alcohol, photochemical oxidation of, by potassium dichromate (BOWEN and YARNOLD), 1648.
Ethyl ammonium phosphates (PLIMMER and BURCH), 297.
barium phosphate, and chloro- (PLIMMER and BURCH), 284, 294.
metaphosphate, action of, on alcohols, ammonia, and amino-compounds (PLIMMER and BURCH), 292.
butyl sulphide, β-hydroxy-, phenylurethane of (BENNETT and HEATHCOAT), 271.
β-chlorovinyl sulphide, *aaβ-tri*chloro- (PHILLIPS, DAVIES, and MUMFORD), 544.
*aβ-di*chlorovinyl sulphide, *aβ-di*chloro-, and *aββ-tri*chloro- (PHILLIPS, DAVIES, and MUMFORD), 545.
*aββ-tri*chlorovinyl sulphide, *aβ-di*chloro- (PHILLIPS, DAVIES, and MUMFORD), 546.
Ethyl ether, emission of light from phosphorescent flames of (EMELÉUS), 1733.
vapour, effect of carbon dioxide on pressure of (SAYCE and BRISCOE), 1303.
viscosity of, at low temperatures (VAN AUBEL), 1111.
autoxidation of (KING), 738.
reaction of acetyl bromide, naphthol and (BASSETT and TAYLOR), 1568.
effect of, on esterification by hydrochloric acid (MITCHELL and PARTINGTON), 1562.
Ethyl *di*hydrogen phosphate, β-hydroxy-, enzymic synthesis of (KAY), 524.
δ-hydroxybutyl sulphide, and its phenylurethane (BENNETT and HEATHCOAT), 272.
sodium phosphate, β-hydroxy- (PLIMMER and BURCH), 286.
sulphur chloride, *tri*chloro- (PHILLIPS, DAVIES, and MUMFORD), 548.
Ethylamine nitrate, parachor of (SUGDEN and WILKINS), 1297.
8-Ethylamino-6-methoxyquinoline, 8-β-amino-, dihydrochloride (BALDWIN), 2962.
Ethylaniline hydrochloride, parachor of (SUGDEN and WILKINS), 1296.
2-Ethylcarbonato-1:9-diacetylanthranol (PERKIN and STORY), 1418.
2-Ethylcarbonato-1-hydroxyanthrone (PERKIN and STORY), 1418.
1-Ethyl-1:2-dihydrobenz*iso*thiazole, 2-thio- (MCCLELLAND, WARREN, and JACKSON), 1585.
Ethylene, thermal decomposition and polymerisation of (HAGUE and WHEELER), 390.
*aγ-di*chlorohydrin triphenylmethyl ether (FAIRBOURNE and COWDREY), 135.
Ethylenediamine, *N*-substituted derivatives of (MOORE, BOYLE, and THORN), 39.
α- and β-**Ethylglucofuranosides**, and their derivatives (HAWORTH and PORTER), 2796.
γ-**Ethylglucosides**. See Ethylglucofuranosides.
Ethylglycine, β-amino-, and its hydrochloride (MOORE, BOYLE, and THORN), 51.
Ethyl-6-hydroxyquinolinium chloride hydrochloride, β-amino- (SESHADRI), 2955.
1-Ethyl-6-hydroxy-2-quinolone, 1-β-amino-, hydrochloride (SESHADRI), 2956.
3-Ethylidene-*cis*-Δ⁴-tetrahydrophthalic acid, and its derivatives (FARMER and WARREN), 908.
3-Ethyl-Δ$^{1:3}$-menthadiene (READ and WATTERS), 2169.
3-Ethylmenthan-3-ol (READ and WATTERS), 2170.
Ethyl-6-methoxyquinolinium chloride hydrochloride, β-amino- (SESHADRI), 2955.
1-Ethyl-6-methoxy-2-quinolone, 1-β-amino-, hydrochloride (SESHADRI), 2956.
N-**Ethylpiperazine**, and *N*-β-hydroxy-, and their derivatives (MOORE, BOYLE, and THORN), 47.
4-Ethylpiperazine-1-carboxylic acid, and 4-β-hydroxy-, ethyl esters (MOORE, BOYLE, and THORN), 46.
Ethyl-*n*-propylsulphone (FENTON and INGOLD), 2340.
Ethyl-*n*- and -*iso*-quinolinium salts, β-amino- (SESHADRI), 2953.
Ethylquinolones, β-amino-, hydrochlorides (SESHADRI), 2954.
1-Ethyl*cyclo*selenipentane. 1-β-bromo-, 1-bromide (MORGAN and BURSTALL), 2201.
Ethyltelluronium *tri*iodide (LOWRY and GILBERT), 2089.

β-Ethyl-thiolethyl *tri*chlorovinyl sulphide, β-chloro- (PHILLIPS, DAVIES, and MUMFORD), 544.
3-Ethyl-1:2:4-triazole, 5-amino-, and its nitrate (REILLY and MADDEN), 816.
3-Ethyl-1:2:4-triazole-5-azoacetylacetone (REILLY and MADDEN), 816.
3-Ethyl-1:2:4-triazole-5-azo-β-naphthol (REILLY and MADDEN), 816.
3-Ethyl-1:2:4-triazole-5-azo-β-naphthylamine (REILLY and MADDEN), 816.
Ethyltri-*n*-butylphosphonium iodide (DAVIES and JONES), 34.
Ethyltri-*n*-propylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2351.
Euxanthone, 7-acetyl derivative, *di*-acetoborate of (ROBERTSON and WATERS), 2242.

F.

Fats, rate of saponification of, by alkalis (MCBAIN, HUMPHREYS, and KAWAKAMI), 2185.
Ferric salts. See under Iron.
Ferrioxalic acid, potassium salt, photolysis of solutions of (ALLMAND and WEBB), 1518, 1531.
Ferrous salts. See under Iron.
Fish, elasmobranch, unsaponifiable matter from oils of (HEILBRON, OWENS, and SIMPSON), 873; (HEILBRON and THOMPSON), 883.
Flames, infra-red emission spectra of, in nitrous oxide (BAILEY and LIH), 51.
Flavone, 7:8-*di*hydroxy- (VENKATARAMAN), 2219.
5:7:2′:4′-*tetra*hydroxy-, synthesis of (ROBINSON and VENKATARAMAN), 61.
Flavones, *hexa*hydroxy-. See Gossypetin and Quercetagetin.
iso-**Flavone group**, syntheses in (BAKER and ROBINSON), 152; (BAKER, POLLARD, and ROBINSON), 1468.
Fluorene, condensation of, with acetone (MAITLAND and TUCKER), 2559.
9-Fluorenyldimethylcarbinol, and its bromide, and 9-bromo- (MAITLAND and TUCKER), 2563.
β-9-Fluorenyl-δ-methylpentane (MAITLAND and TUCKER), 2566.
ε-9-Fluorenyl-αγγ-trimethyltrimethylene glycol (MAITLAND and TUCKER), 2566.
Fluorescence, relation of photochemical action to (NORRISH), 1611.
Fluorine:—
Hydrofluoric acid, action of, on selenium and tellurium compounds (PRIDEAUX and MILLOTT), 2703.
Fluoryl-9-triethylammonium hydroxide, decomposition of, and its salts (INGOLD and JESSOP), 2361.
Fluoryl-9-trimethylammonium salts (INGOLD and JESSOP), 2359.
Formic acid, thallous salt, parachor of (SUGDEN), 326.
Formyl-β-3-methoxyphenylethylamine (GULLAND and VIRDEN), 1796.
Formylmethoxytetrahydrostrychnidine (B) (PERKIN and ROBINSON), 991.
Formyl-β-phenylethylmethylamine (GULLAND and VIRDEN), 1800.
Fructose, compound of, with lime (MACKENZIE and QUIN), 961.
constitution of diacetone derivatives of (ANDERSON, CHARLTON, HAWORTH, and NICHOLSON), 1337.
Fumaric acid, adsorption of, by charcoal (PHELPS), 1724.
formation of *l*-malic acid from, by *Aspergillus niger* (CHALLENGER and KLEIN), 1644.
Fungi, mould, degradation of fatty acids by (STENT, SUBRAMANIAM, and WALKER), 1987, 2485.

G.

Galactose, modifications of (RIIBER, MINSAAS, and LYCHE), 2173.
Galactosides, preparation of (ROBERTSON), 1820.
Gases, intensive drying of (BONE), 1664.
effect of, on pressure of saturated vapours (SAYCE and BRISCOE), 1302.
periodic structures from interaction of (HEDGES), 1848.
Gas reactions, homogeneous catalysis of (GLASS and HINSHELWOOD), 1815.
Germanium (PUGH), 1994.
extraction of, from germanite (PUGH), 2540.
Germanium *di*oxide, solubility of, in acids and alkalis (PUGH), 1537.
Germanic acid, and its sodium salt, dissociation and equilibrium constants of (PUGH), 1994.
Glucofuranose 5:6-carbonate, and its derivatives (HAWORTH and PORTER), 2805.
Glucose, compounds of, with lime (MACKENZIE and QUIN), 960.
constitution of acetone compounds of (ANDERSON, CHARLTON, and HAWORTH), 1329.
Glucose-acetone carbonate, and its derivatives (HAWORTH and PORTER), 2801.
Glucosides (HICKINBOTTOM), 1676.
synthesis of (ROBERTSON), 1820; (ROBERTSON and WATERS), 2239.

α-Glucosides, preparation of, from β-glucosyl chlorides (HICKINBOTTOM), 1676.

7-β-Glucosidoxy-1-hydroxyxanthone, and its tetra-acetyl derivative (ROBERTSON and WATERS), 2242.

β-Glucosidoxyxanthones, and their tetra-acetyl derivatives (ROBERTSON and WATERS), 2240.

β-Glucosyl chloride, preparation of acetyl and chloroacetyl derivatives of (HICKINBOTTOM), 1681.

Glutaric acid, catalytic and thermal decomposition of (VOGEL), 726.

Glutarodi-β-phenylethylamide (CHILD and PYMAN), 2015.

Glutarodi-β-veratrylethylamide, and its action with phosphorus oxychloride (CHILD and PYMAN), 2015, 2020.

dl-**Glyceraldehyde**, methylation of (REEVES), 1327.

Glycerol β-methyl ether (FAIRBOURNE), 2235.

ethers, structure of (FAIRBOURNE), 1151.

Glycerols, disubstituted, structure of (FAIRBOURNE and COWDREY), 129.

Glycerophosphoric acids, and their salts, constitution of (HILL and PYMAN), 2236.

Glycine, synthesis of (ANSLOW and KING), 2463.

ethyl ester, action of nitrous acid on (TAYLOR and PRICE), 2052.

Glycogen, properties and derivatives of (HAWORTH, HIRST, and WEBB), 2479.

Glycols, aliphatic, derivatives of (BENNETT and HEATHCOAT), 268.

Gossypetin, synthesis of (BAKER, NODZU, and ROBINSON), 74.

Grignard reagents, reaction of carboxylic esters with (HATT), 1623.

Guanidine diethyl pyrophosphate (PLIMMER and BURCH), 299.

H.

Halogens, polarity of, in solutions of pyridinium and other dichloriodides (READE), 853.

reactions of, with carbon sulphidoselenide (BRISCOE, PEEL, and ROBINSON), 1048.

Harmaline (BARRETT, PERKIN, and ROBINSON), 2942.

Harmine (BARRETT, PERKIN, and ROBINSON), 2942.

Heat of crystallisation of monobasic fatty acids (GARNER and KING), 1849.

Helianthrone, 3:3′-*di*bromo- and 3:3′-*di*iodo-2:2′-*di*hydroxy- (HARDACRE and PERKIN), 184.

Δ^1-*cyclo*Heptenylacetic acid, and its anilide (HUGH, KON, and MITCHELL), 1437.

*cyclo*Heptenylacetone (HUGH, KON, and MITCHELL), 1438.

*cyclo*Heptylideneacetanilide (HUGH, KON, and MITCHELL), 1437.

*cyclo*Heptylideneacetone (HUGH, KON, and MITCHELL), 1438.

Hexa-allylamineperoxodihydroxodicobalt *tri*nitrate (PERCIVAL and WARDLAW), 1319.

Hexabenzylaminetrihydroxodicobalt *tri*chloride (PERCIVAL and WARDLAW), 1321.

Hexahydrofarnesol, and its bromide (HEILBRON and THOMPSON), 889.

Hexahydro-ψ-ionone (HEILBRON and THOMPSON), 888.

2:3:4:5:6:13-Hexahydro-α-quinindene, and its 6-benzoyl derivative (BLOUNT, PERKIN, and PLANT), 1985.

3:5:7:8:3′:4′-Hexamethoxyflavone (BAKER, NODZU, and ROBINSON), 81.

Hexamethoxy-2-methyl*iso*flavone. See 2-Methylirigenin trimethyl ether.

Hexamethylenetetramine, compounds of metallic chlorides with (DUFF and BILLS), 411.

O-**Hexamethylquercetagetin** (BAKER, NODZU, and ROBINSON), 82.

***n*-Hexane**, emission of light from phosphorescent flames of (EMELÉUS), 1733.

effect of drying on (SMITS, SWART, and BRUIN), 2712.

*cyclo*Hexane, 1:2-*di*bromo-3:4-*di*hydroxy- (FARMER and SCOTT), 176.

*cyclo*Hexane-1-acetone-1-acetic acid, and its derivatives (QUDRAT-I-KHUDA), 717.

*cyclo*Hexane-1-acetone-1-malonic acid, tautomerism of, and its derivatives (QUDRAT-I-KHUDA), 713.

*cyclo*Hexane-1:1-dicarboxylic acid, preparation of, and its disodium salt, and their dissociation constants (VOGEL), 1491.

*cyclo*Hexane*spirocyclo*-3-hydroxy-6-cyano-3-methyl-5-piperidone (QUDRAT-I-KHUDA), 716.

*cyclo*Hexanone-2-carboxyanilide (BLOUNT, PERKIN, and PLANT), 1986.

Hexapropylamineperoxodihydroxodicobalt *tri*chloride (PERCIVAL and WARDLAW), 1319.

Δ^2-*cyclo*Hexene, 1:2-*di*bromo- (FARMER and SCOTT), 175.

*cyclo*Hexenes, additive formation of (FARMER and WARREN), 897.

***n*-Hexenoic acids**, and their derivatives (ECCOTT and LINSTEAD), 2153.

Hexoic acid, zinc salt (HAWORTH), 1460.
*iso***Hexoic acid**, γ-chloro-, anilide, chloride, and ethyl ester (LINSTEAD), 2509.
α-Δ¹-*cyclo***Hexenylbutyronitrile** (KANDIAH and LINSTEAD), 2150.
α-Δ¹-*cyclo***Hexenylpropionanilide** (KANDIAH and LINSTEAD), 2149.
*p-cyclo***Hexylbenzoic acid**, and its sodium salt (MAYES and TURNER), 507.
*cyclo***Hexylideneacetonitrile** (KANDIAH and LINSTEAD), 2146.
Humulene, individuality of (CHAPMAN), 359.
Hydrazine hydrate, reaction of, with *o*-nitrosulphonyl chlorides (DANN and DAVIES), 1050.
phosphates (PLIMMER and BURCH), 298.
*iso***Hydrobenzoins**, optically active, and their derivatives (READ, CAMPBELL, and BARKER), 2305.
Hydrobromic acid. See under Bromine.
Hydrocarbons, $C_{19}H_{18}$, from diacetone alcohol and magnesium 9-fluorenyl bromide (MAITLAND and TUCKER), 2565.
low-temperature oxidation of (LEWIS), 759.
aromatic, and unsaturated, determination of, in light oils and motor spirits (MANNING), 1014.
olefine, inflammability of mixtures of air and, in closed spheres (MAXWELL and WHEELER), 245.
paraffin, thermal decomposition of (HAGUE, WHEELER, and LOWRY), 378.
Hydrochloric acid. See under Chlorine.
Hydrocyanic acid. See under Cyanogen.
Hydroferrocyanic acid, sodium salt, solubility of, in water (FRIEND, TOWNLEY, and VALLANCE), 2326.
Hydrogen, infra-red emission spectrum of, burning in nitrous oxide (BAILEY and LIH), 54.
influence of light intensity on photochemical union of bromine and (BODENSTEIN, JOST, and JUNG), 1153.
mean life of catalyst in photochemical union of chlorine and (CHAPMAN and GRIGG), 2426.
combination of oxygen and, on nickel (DONNELLY), 2438.
on platinum (DONNELLY and HINSHELWOOD), 1727.
Hydrogen *per*oxide, detection of, in ether (KING), 744.
sulphide, reaction of ferric oxide with, at high temperatures (SAYCE), 2002.

I.

Illinium, detection of (MARSH), 2387.
Industry, co-operation in science and (THORPE), 834.
Intramolecular rearrangement, polarimetric study of, in inactive substances (PATTERSON and THOMSON), 1895.
Iodine vapour, effect of gases on colour of, and their solvent action on the solid form (WRIGHT and MCGREGOR), 1364.
solubility of, in solutions of halides (CARTER and HOSKINS), 580.
Ions, apparent hydration of (INGHAM), 2059.
Iridamide (BAKER and ROBINSON), 160.
Iron, corrosion of (MCAULAY and BASTOW), 85.
Ferric chromate (BRIGGS), 243.
hydroxide sols, coagulation of (GHOSH), 2698.
oxide, reaction of hydrogen sulphide with, at high temperatures (SAYCE), 2002.
sulphate, reaction between cuprous sulphide and solutions of (WHITBY), 60.
Ferrous chloride, additive compound of, with hexamethylenetetramine (DUFF and BILLS, 418.
basic (DUFF and BILLS), 415.
sulphate hemitritamethyl-alcoholate (GIBSON, DRISCOLL, and JONES), 1443.
Iron, determination of, iodometrically (GREY), 35.
Isatin, anils of (CALLOW and HOPE), 1191.
Isatin-2-anil, isomerism of, and its derivatives (CALLOW and HOPE), 1191.
Isatin-2-benzanilide (CALLOW and HOPE), 1198.
Isomerism, dynamic, with mobile hydrocarbon radicals (CHAPMAN), 2133.

J.

Jaffé's reaction, chemistry of (ANSLOW and KING), 1210.

K.

α-Ketoadipic acid, ethyl hydrogen ester, *p*-methoxyphenylhydrazone (BARRETT, PERKIN, and ROBINSON), 2943.
2-Keto-3-cyano-4:6-dimethyl-4-ethylpiperidine, 6-hydroxy- (QUDRAT-I-KHUDA), 1916.

2-Keto-3-cyano-6-methyl-4:4-diethylpiperidine, 6-hydroxy- (QUDRAT-I-KHUDA), 1918.
2-Keto-3-cyano-4:4:6-trimethylpiperidine, 6-hydroxy- (QUDRAT-I-KHUDA), 205.
2-Keto-3-cyano-4:4:6-trimethyl-2:3:4:5-tetrahydropyridine (QUDRAT-I-KHUDA), 205.
14-Keto-7:14-dihydrobenzo-β-quinindene (BLOUNT, PERKIN, and PLANT), 1983.
9-Keto-5:6:7:8:9:10-hexahydrophenanthridine (BLOUNT, PERKIN, and PLANT), 1986.
5-Keto-2:3:4:5:6:13-hexahydro-α-quinindenes (BLOUNT, PERKIN, and PLANT), 1984.
1-Keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthalene, and 2:6-*di*bromo- and oximino- (CLEMO, HAWORTH, and WALTON), 2381.
1-Keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthyl-2-acetic acid (CLEMO, HAWORTH, and WALTON), 2384.
α-1-Keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthyl-2-propionic acid, and its lactone (CLEMO, HAWORTH, and WALTON), 2386.
1-Keto-6-methoxy-2-methyltetrahydro-*iso*quinoline (GULLAND and VIRDEN), 1798.
2-Ketomethoxy-2:3:4:5-tetrahydro-β-carbolines (BARRETT, PERKIN, and ROBINSON), 2944.
Ketone, $C_{25}H_{22}O_3$, from *o*-methoxybenzaldehyde and benzyl methyl ketone (HEILBRON and IRVING), 941.
Ketones, analysis of (HOBSON), 1384.
determination of, by means of their semicarbazones (VEIBEL), 2423.
determination of the reactive group in (HEILBRON and IRVING), 936.
α- and β-Ketonic acids, action of bromine on (HUGHES and WATSON), 1945.
5-Keto-2-phenyl-4-(2′-nitro-3′:4′-dimethoxybenzylidene)-4:5-dihydroxazole (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2932.
Ketotetrahydroquinindenes (BLOUNT, PERKIN, and PLANT), 1982.
Ketoximes, methylation of (BRADY and CHOKSHI), 2271.
Kojic acid, production of, from pentoses (CHALLENGER, KLEIN, and WALKER), 1498.

L.

Lactic acid, rotation of derivatives of (PATTERSON and LAWSON), 2042.
Lactose, compound of, with lime (MACKENZIE and QUIN), 963.
Lævulic acid, action of bromine on (HUGHES and WATSON), 1949.
Laurotetanine (CALLOW, GULLAND, and HAWORTH), 658.
Lead chloride, equilibrium of acetic acid, lead acetate, water and (SANDVED), 337.
Lead organic compounds:—
Lead sozoiodolate. See Benzenesulphonic acid, 3:5-*di*iodo-4-hydroxy-, lead salt.
tetraethyl, parachor of (SUGDEN), 327.
Lectures delivered before the Chemical Society (PERKIN), 1347; (DONNAN), 1387.
Liesegang rings, formation of (HEPBURN), 213.
Lignoceric acid, heat of crystallisation of (GARNER and KING), 1859.
Linolic acid, constitution of (HAWORTH), 1456.
Lithium molybdenyl *tetra*bromide (ANGELL, JAMES, and WARDLAW), 2583.
sulphate hydrates, and their solubility in water (FRIEND), 2330.
Liversidge Lecture (DONNAN), 1387.
Lupin alkaloids (CLEMO and RAPER), 1927.
Lupinine, chloro-, methiodide (CLEMO and RAPER), 1934.

M.

Magnesium organic compounds:—
Magnesium 9-fluorenyl bromide, action of, with acetone and with diacetone alcohol (MAITLAND and TUCKER), 2559.
hemiheptamethyl-alcoholate (GIBSON, DRISCOLL, and JONES), 1443.
phenyl bromide, reaction between phenyl glycide and (BOYD and VINEALL), 1622.
Maleic acid, adsorption of, by charcoal (PHELPS), 1724.
l-**Malic acid**, formation of, from fumaric acid by *Aspergillus niger* (CHALLENGER and KLEIN), 1644.
Malondi-β-phenylethylamide (CHILD and PYMAN), 2014.
Malonic acid, and its alkyl derivatives, and their sodium salts, dissociation constants of (VOGEL), 1476.
metallic salts, electrolytic dissociation of (RILEY and FISHER), 2006.
potassium cobalt oxy-salt (PERCIVAL and WARDLAW), 2631.

Malonic acids, substituted, electrometric titration curves of (GANE and INGOLD), 1691.
Malonic anhydride, production of (LUNT and MUMFORD), 1720.
Maltose, compound of, with lime (MACKENZIE and QUIN), 962.
Mannitol, rotation dispersion of, and its derivatives (PATTERSON and TODD), 2876.
Margaric acid, heat of crystallisation of (GARNER and KING), 1860.
Menthone series (READ, STEELE, and CARTER), 23.
Menthylamines, salts of, with optically active acids (READ, STEELE, and CARTER), 23.
β-1-Menthylgalactoside, with its tetra-acetyl derivative (ROBERTSON), 1822.
Mercury, parachor of (SUGDEN), 326.
Mercury alloys, order of removal of metals from (RUSSELL), 2398.
Mercuric chloride and iodide, equilibrium of water and (SUGDEN), 488.
Mercury organic compounds :—
Mercury diphenyl, parachor of (SUGDEN), 327.
Mercuriselenophen, *di*chloro-, and *di*hydroxy-, and its derivatives (BRISCOE, PEEL, and YOUNG), 2592.
Mercurithiophen, *di*chloro- and *di*-hydroxy-, and its derivatives (BRISCOE, PEEL, and YOUNG), 2591.
Metals, passivity of (EVANS), 92 ; (EVANS and STOCKDALE), 2651.
corrosion of (EVANS), 111.
order of removal of, from amalgams (RUSSELL), 2398.
fused, parachors of (SUGDEN and WILKINS), 1291.
heated, effect of gases on the electric charges developed by (BANGHAM and LEWIS), 1140.
Metallic chlorides, reactions of, with hexamethylenetetramine (DUFF and BILLS), 411.
halides, complex compounds of triaminopropane with (MANN), 656.
salts, equilibrium between alcohols and (GIBSON, DRISCOLL, and JONES), 1440.
complex, stability of (MANN), 651.
Methane, decomposition of (JONES), 419; (HOLLIDAY and EXELL), 1066.
6-Methoxy-1-γ-aminopropylquinolinium hydrochloride (SESHADRI), 2957.
6-Methoxy-1-γ-aminopropyl-2-quinolone, hydrochloride (SESHADRI), 2957.
2-Methoxyanthraquinone, 1-*mono*- and 1:3-*di*-bromo-, and 3-iodo- (HARDACRE and PERKIN), 185.
O-**Methoxybenzaldehyde** benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1945.
4-Methoxybenzaldehyde, 5-bromo-2-hydroxy- and 3:5-*di*bromo-2-hydroxy- (RAO, SRIKANTIA, and IYENGAR), 1579.
Methoxybenzaldehydes, fluoro-, and their derivatives (HODGSON and NIXON), 1638.
Methoxybenzoic acids, fluoro- (HODGSON and NIXON), 1639.
p-**Methoxybenzylamine** picrate (INGOLD and SHOPPEE), 1203.
α-*p*-**Methoxybenzylcinnamic acid**, esters (INGOLD and SHOPPEE), 453.
Methoxybenzyldihydrostrychnidine (PERKIN and ROBINSON), 1000.
p-**Methoxybenzylidenebenzylamine** (INGOLD and SHOPPEE), 1202.
Methoxybenzyltetrahydrostrychnidine (B), (PERKIN and ROBINSON), 991.
7-Methoxy-3:4-dibenzylcoumarin (BAKER and EASTWOOD), 2907.
6-Methoxy-3:4-dihydro*iso*quinoline methiodide, and its periodides (GULLAND and VIRDEN), 1797.
4-Methoxy-2:5-dimethylacetophenone (CLEMO, HAWORTH, and WALTON), 2376.
4-Methoxy-2:5-dimethylbenzaldehyde (CLEMO, HAWORTH, and WALTON), 2377.
4-Methoxy-2:5-dimethylbenzoic acid, (CLEMO, HAWORTH, and WALTON), 2377.
β-4-Methoxy-2:5-dimethylbenzoylacrylic acid (CLEMO, HAWORTH, and WALTON), 2382.
δ-4-Methoxy-2:5-dimethylbenzoylbutane-βγ-dicarboxylic acid (CLEMO, HAWORTH, and WALTON), 2385.
δ-4-Methoxy-2:5-dimethylbenzoylbutane-ββγ-tricarboxylic acid, ethyl ester (CLEMO, HAWORTH, and WALTON), 2385.
γ-4-Methoxy-2:5-dimethylbenzoylpropane-αβ-dicarboxylic acid, and its anhydride (CLEMO, HAWORTH, and WALTON), 2384.
γ-4-Methoxy-2:5-dimethylbenzoylpropane-ααβ-tricarboxylic acid, ethyl ester, preparation of (CLEMO, HAWORTH, and WALTON), 2383.
β-4-Methoxy-2:5-dimethylbenzoylpropionic acid, and α-bromo-, and α-chloro-, and their ethyl esters (CLEMO, HAWORTH, and WALTON), 2381.
4-Methoxy-2:5-dimethylcinnamic acid (CLEMO, HAWORTH, and WALTON), 2377.
7-Methoxy-2:5-dimethyl*iso*flavone (BAKER and ROBINSON), 161.

6-Methoxy-4:7-dimethyl-α-hydrindone (CLEMO, HAWORTH, and WALTON), 2378.

γ-4-Methoxy-2:5-dimethylphenylbutyric acid (CLEMO, HAWORTH, and WALTON), 2381.

β-4-Methoxy-2:5-dimethylphenylethyl alcohol, and its bromide and phenylcarbamate (CLEMO, HAWORTH, and WALTON), 2379.

β-4-Methoxy-2:5-dimethylphenylethylamine, and its acetyl derivative (CLEMO, HAWORTH, and WALTON), 2378.

β-4-Methoxy-2:5-dimethylphenylethylcarbamic acid, methyl ester (CLEMO, HAWORTH, and WALTON), 2379.

β-4-Methoxy-2:5-dimethylphenylethylmalonic acid, and its ethyl ester (CLEMO, HAWORTH, and WALTON), 2380.

α-(β-4-Methoxy-2:5-dimethylphenylethyl)-α′-methylsuccinic acid (CLEMO, HAWORTH, and WALTON), 2385.

β-4-Methoxy-2:5-dimethylphenylethylsuccinic acid (CLEMO, HAWORTH, and WALTON), 2384.

β-4-Methoxy-2:5-dimethylphenylpropionic acid, and its derivatives (CLEMO, HAWORTH, and WALTON), 2377.

7-Methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthyl-2-acetic acid (CLEMO, HAWORTH, and WALTON), 2384.

7-Methoxy-2:3-diphenylbenzo-γ-pyrone, 5-hydroxy- (BAKER and EASTWOOD), 2902.

4′-Methoxydiphenyl-2-carboxylic acid, 2′-hydroxy-, lactone (HURTLEY), 1873.

4-Methoxydiphenylmethane, 2-hydroxy- (SHORT and STEWART), 559.

7-Methoxy*iso*flavane, 3:4-*di*hydroxy- (BAKER, POLLARD, and ROBINSON), 1472.

7-Methoxy*iso*flavanone, 3-hydroxy- (BAKER, POLLARD, and ROBINSON), 1472.

7-Methoxy*iso*flavone-2-carboxylic acid (BAKER, POLLARD, and ROBINSON), 1473.

1-Methoxy*cyclo*hexylacetone semicarbazone (KON and LINSTEAD), 1276.

β-Methoxyindole-3-propionic acids, and their derivatives (BARRETT, PERKIN, and ROBINSON), 2944.

2-Methoxy-6-methylphenyl benzyl ketones, 2- and 4-hydroxy- (BAKER and ROBINSON), 161.

6-Methoxy-2-methyltetrahydro*iso*quinoline, and its hydriodide, and 1-hydroxy- (GULLAND and VIRDEN), 1796, 1798.

Methoxymethyltetrahydrostrychnidine (B), and its derivatives (PERKIN and ROBINSON), 986.

Methoxymethylthioxanthones, and their salts (ROBERTS and SMILES), 869.

ω-*m*-Methoxyphenoxyacetophenone (BAKER, POLLARD, and ROBINSON), 1470.

α-*m*-Methoxyphenoxymethylmandelic acid, and its derivatives (BAKER, POLLARD, and ROBINSON), 1471.

3-Methoxyphenylacetaldoxime (GULLAND and VIRDEN), 1796.

7-Methoxy-3-phenyl-4-benzylcoumarin (BAKER and EASTWOOD), 2906.

2-Methoxyphenyl benzyl ketone, 4-hydroxy- (BAKER and ROBINSON), 161.

7-Methoxy-3-phenyl-2-(3:4-dimethoxyphenyl)benzo-γ-pyrone (BAKER and EASTWOOD), 2905.

4-Methoxyphenyl-2:6-dimethyl-1:4-dihydropyridine-3:5-dicarboxylic acids, ethyl esters (HINKEL and MADEL), 752.

4-Methoxyphenyl-2 6-dimethylpyridine-3:5-dicarboxylic acids, ethyl esters (HINKEL and MADEL), 752.

β-4-Methoxyphenylethylamine, β-3-amino-, and β-3-*mono*- and β-3:5-*di*-nitro-, and their hydrochlorides and derivatives (CALLOW, GULLAND, and HAWORTH), 1453.

β-4-Methoxyphenylethylamine-5-sulphonic acid, β-3-nitro- (CALLOW, GULLAND, and HAWORTH), 1450.

α-Methoxyphenylethyldimethylamines, and their derivatives (E. and F. STEDMAN), 612.

α-*p*-Methoxyphenyl-γ-phenyl-Δ$^{\beta}$-propene, preparation of (INGOLD and SHOPPEE), 449.

Methoxyphenylphthalazines (AGGARWAL, DARBARI, and RÂY), 1944.

β-4-Methoxyphenylpropionic acid, β-3-nitro-, and its amide (CALLOW, GULLAND, and HAWORTH), 1452.

3-*p*-Methoxyphenyl-2-styrylbenzo-γ-pyrone, 7-hydroxy-, and its cinnamoyloxy-derivative (BAKER and EASTWOOD), 2903.

4-Methoxyphthalic acid (CHAKRAVARTI and PERKIN), 199.

4-Methoxyphthalide (CHAKRAVARTI and PERKIN), 199.

4-Methoxyphthalidecarboxylic acid (CHAKRAVARTI and PERKIN), 199.

4-Methoxyphthalidecarboxy-β-*m*-methoxyphenylethylamide (CHAKRAVARTI and PERKIN), 200.

Methoxypropanes, αγ- and βγ-*di*chloro- (FAIRBOURNE), 2234.

6-Methoxyquinoline, 5-amino-, 8:5-*di*-amino-, and 8-nitro-5-amino-, acetyl derivatives (BALDWIN), 2960.

3-**Methoxystyrene**, ω-nitro- (GULLAND and VIRDEN), 1795.
4-**Methoxystyryl** *n*-**hexyl ketone** (HEILBRON and IRVING), 935.
Methoxytetrahydro-β-carbolines, synthesis of (BARRETT, PERKIN, and ROBINSON), 2942.
Methoxytetrahydrostrychnidine (B) (PERKIN and ROBINSON), 993.
4-**Methoxythioxanthone**, 1-chloro- (ROBERTS and SMILES), 869.
Methoxythioxanthones, hydroxy-, and their derivatives (ROBERTS and SMILES), 1325.
4-**Methoxytoluene**, 2-iodo- (ROBERTS and SMILES), 868.
4-**Methoxy-o-toluidine**, chloro- (ROBERTS and SMILES), 868.
1-**Methoxyxanthone**, 7-hydroxy-, and its derivatives (ROBERTSON and WATERS), 2242.
Methyl ethyl and propyl ethers, decomposition of (GLASS and HINSHELWOOD), 1806.
ε-hydroxyamyl sulphide, and its phenylurethane (BENNETT and HEATHCOAT), 274.
hydroxytellurium oxide, anhydride of (DREW), 566.
1-**Methylamino-3-5-dimethylbenzthiazole** (HUNTER and PRIDE), 946.
β-**Methylamino-1-methylamino-2-phenylnaphthalene**, β-3-nitroso- (KENTISH), 1175.
α-**Methylamino-1-methylimino-2-phenyl-1:2-dihydronaphthalene**, α-3-nitroso (KENTISH), 1173.
Methylaniline hydrochloride, parachor of (SUGDEN and WILKINS), 1296.
Methylaniline, 4-bromo-2- and -3-nitro- and 3:6-*di*nitro- (MACMILLAN and READE), 2867.
Methyl-9-anthranols, acetates and methyl ethers of (BARNETT and GOODWAY), 1758.
2-**Methylanthraquinone-7-carboxylic acid** (MORGAN and COULSON), 2211.
Methyl-9-anthrones (BARNETT and GOODWAY), 1757.
1-**Methylbenziminazole** methosulphate (PHILLIPS), 2825.
N-**Methyl-o-benzoicsulphinide** (MCCLELLAND, WARREN, and JACKSON), 1587.
p-**Methylbenzylmethylamine** hydrobromide (BAKER), 1206.
Methyl*cyclo***butane-1-carboxylic acid**, 2-amino-, lactam (MENON and SIMONSEN), 305.
2(or 4)-**Methyl-4(or 2)***di***chloromethylene-1:3-benzdioxin**, 6-nitro-2(or 4)*tri*chloro- (CHATTAWAY and IRVING), 1048.
2-**Methylchromone**, 7:8-*di*hydroxy-, synthesis of (VENKATARAMAN), 2219.
8-**Methyl-2:2′-diethyl-5:6:5′:6′-dibenzthiocarbocyanine** iodide (HAMER), 2606.
1-**Methyl-1:2-dihydrobenz***iso***thiazole**, 2-thio- (MCCLELLAND, WARREN, and JACKSON), 1585.
3-**Methyl-5:10-dihydrophenarsazine**, 10-bromo- (GIBSON and JOHNSON), 781.
10-chloro- (GIBSON and JOHNSON), 779.
4-**Methyl-5:10-dihydrophenarsazine**, 10-chloro- (GIBSON and JOHNSON), 2748.
Methyl-5:10-dihydrophenarsazines, 10-bromonitro-, 10-chloro-4-amino-, and 10-chloronitro- (GIBSON and JOHNSON), 1247.
10-chloro-4-nitro- (ELSON, GIBSON, and JOHNSON), 2742.
5-**Methyldiphenylamine-6′-arsinic acid**, 2-nitro- (ELSON, GIBSON, and JOHNSON), 2742.
3-**Methyldiphenylaminearsinic acids** (GIBSON and JOHNSON), 779.
Methyldiphenylamine-6′-arsinic acids, nitro-, synthesis of (GIBSON and JOHNSON), 1229.
Methyldiphenylamine-6′-*di***bromoarsines**, nitro- (GIBSON and JOHNSON), 1255.
Methyldiphenylamine-6′-*di***chloroarsines**, nitro- (GIBSON and JOHNSON), 1247; (ELSON, GIBSON, and JOHNSON), 2742.
Methyleneazomethine, a new triad system (INGOLD and SHOPPEE), 1199.
5:6-**Methylenedioxyisatin** (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2924.
3:4-**Methylenedioxyphenylarsinic acid**, and 6-amino-, and its acetyl derivative, and 6-nitro- (BALABAN), 1088.
6:7-**Methylenedioxy-1-phenylphthalazine** (AGGARWAL, DARBARI, and RÂY), 1944.
3:4-**Methylenedioxyquindoline**, and 10-nitro- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2935.
Methylethylbenzthio-ψ-cyanine iodides (HAMER), 2603.
5-**Methyl-5-ethyldihydroresorcinol** (QUDRAT-I-KHUDA), 1917.
β-**Methyl-β-ethyl-Δγ-hexenoic acid**, δ-hydroxy-, lactone (QUDRAT-I-KHUDA), 1918.
4-**Methyl-6-ethylpyridine**, 2-chloro- (BARDHAN), 2230.
4-**Methyl-6-ethyl-2-pyridone**, and 3-cyano- (BARDHAN), 2230.
β-**Methylglucofuranoside** 5:6-carbonate (HAWORTH and PORTER), 2804.

3-Methylglucose, constitution of (ANDERSON, CHARLTON, and HAWORTH), 1329.

α- and **β-Methylglucosides**, preparation of (PATTERSON and ROBERTSON), 300.

Methylheptenone, and its *per*oxide (HEILBRON, OWENS, and SIMPSON), 880.

3- and **4-Methyl*cyclo*hexane-1:1-diacetic acids**, ω-imides of (KANDIAH and LINSTEAD), 2152.

β-Methyl-Δγ-hexenoic acid, and **β-hydroxy-**, ethyl ester (BURTON and INGOLD), 2029, 2031.

2-Methyl-Δ1(or 6)-*cyclo*hexenyl-1-acetonitrile (KANDIAH and LINSTEAD), 2152.

Methyl*iso*hexyl ketone, semicarbazone (HEILBRON and THOMPSON), 888.

1-Methyl-2-α-hydroxyethylbenziminazole (PHILLIPS), 2826.

2-Methyliirigenin di- and tri-methyl ethers (BAKER and ROBINSON), 159.

2-Methyliirigenol, synthesis of (BAKER and ROBINSON), 152.

Methyl-lupinines, **α-** and **β-chloro-**, methiodides (CLEMO and RAPER), 1934.

3-Methyl-Δ1:3-menthadiene (READ and WATTERS), 2169.

3-Methylmenthan-3-ol (READ and WATTERS), 2170.

Methyl β-methylbutenyl ketones, and their semicarbazones (QUDRAT-I-KHUDA), 1915.

Methylmyricetinsulphonic acid (HEAP and ROBINSON), 70.

Methylnaphthathiazole ethiodides and methiodides (HAMER), 2601.

Methyl-α- and **-β-naphthathiazoles**, cyanine dyes from salts of (HAMER), 2598.

2-Methyl-1-naphthoic acid, *l*-menthyl ester (RULE, SPENCE, and BRETSCHER), 2522.

***N*-Methylnicotinic acid**, methyl ester, *tetra*chloroiodide (CHATTAWAY and PARKES), 1315.

***O*-Methyl-*m*-nitrobenzamidoxime** (BRADY and PEAKIN), 2270.

α- and **β-Methyloxy-sparteines**, and its derivatives (CLEMO and RAPER), 1939.

Methyl*cyclo*pentane-1-carboxylic acid, 2-amino-, γ-lactam of (MENON and SIMONSEN), 305.

β-Methyl-Δβ-pentenonitrile (KANDIAH and LINSTEAD), 2151.

1- and **3-Methylphenarsazinic acids**, and their hydrochlorides (GIBSON and JOHNSON), 780.

Methylphenarsazinic acids, amino-, and nitro- (GIBSON and JOHNSON), 1247.

***dl-N*-2-Methylphenylalanineamide-4-arsinic acid**. See *dl-N-o*-Tolylalanineamide-5-arsinic acid.

2-Methyl-5-*iso*propyltetraphenylmethane, 4-hydroxy- (HARDY), 1006.

6-Methyl-2-pyridone-4-carboxylic acid, and its methyl ester, 5-bromo-3-cyano- and 3-cyano-, ethyl esters (BARDHAN), 2227.

2:3-(2′-Methylpyrrolo)(4′:5′)-quinoline (ROBINSON), 2949.

2-Methylquinoline, 3-amino-, derivatives of (ROBINSON), 2949.

β-Methylsorbic acid, and its derivatives (BURTON and INGOLD), 2028.

Methylsparteine, and its derivatives (CLEMO and RAPER), 1938.

Methyl-ψ-strychnidine (B), and its derivatives (PERKIN and ROBINSON), 995.

Methyltelluronium *tri*halides (DREW), 566.

Methyl-*cis*-Δ4-tetrahydrophthalic acid, 3:6-*di*hydroxy-, dilactone (FARMER and WARREN), 904.

Methyl-*cis*-Δ4-tetrahydrophthalic anhydride, 3:6-*di*bromo- (FARMER and WARREN), 903.

3-Methyltetraphenylmethane, 4-amino- and 4-chloro- (HARDY), 1008.

2-Methylthiolbenzamide (MCCLELLAND and WARREN), 2625.

2-Methylthiolbenzonitrile (MCCLELLAND and WARREN), 2625.

2-Methylthiolbenzothioamide (MCCLELLAND and WARREN), 2625.

2-*o*-Methylthiolphenyl-4:5-dihydroglyoxaline, and its derivatives (MCCLELLAND and WARREN), 2625.

Methyl-*m*-toluidine, 6-nitro-4-amino- (BRADY, DAY, and REYNOLDS), 2265.

Methyltri*iso*amylphosphonium iodide (DAVIES, PEARSE, and JONES), 1267.

Methyltri-*n*-butylphosphonium iodide (DAVIES and JONES), 34.

Methyltriethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2350.

Methyltri-*n*-propylphosphonium iodide (DAVIES, PEARSE, and JONES), 1264.

3′-Methylxantha-β-naphtha*spiro*pyran (IRVING), 1095.

Molecular compounds, organic, structure of (BENNETT and WILLIS), 256.

Molecular volume. See under Volume.

Molybdenum, electro-deposition of, at a mercury cathode (MERRILL and RUSSELL), 2389.

Molybdenum bromides, complex (ANGELL, JAMES, and WARDLAW), 2578.

Monosaccharides, structure of (AVERY and HIRST), 2466.
Morin, synthesis of, and its trimethyl ether (ROBINSON and VENKATARAMAN), 61.
*apo***Morphine** dimethyl ether, attempted synthesis of (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1666.
Motor spirit, determination of aromatic and unsaturated hydrocarbons in (MANNING), 1014.
Moulds, degradation of fatty acids by (STENT, SUBRAMANIAM, and WALKER), 1987, 2485.
Myricetin 3′:4′:5′-trimethyl ether, and its triacetyl derivative (HEAP and ROBINSON), 69.

N.

Naphthadianthrone, 3-iodo-2:2′-*di*hydroxy-, diacetyl derivative (HARDACRE and PERKIN), 185.
α-**Naphthaleneazo-3:6-disulpho-β-naphthyl** sodium sulphite (KING), 608.
Naphthaleneazophenyl sulphate, 2-hydroxy-, potassium derivative (BURKHARDT and WOOD), 147.
α-**Naphthaleneazosulpho-α-naphthyl** sodium sulphites (KING), 607.
Naphthalene-2-sulphinyl chloride, 1-bromo- (COHEN and SMILES), 211.
Naphthalene-2-sulphonyl chloride, 1-bromo- (COHEN and SMILES), 211.
Naphthathiazolealdehyde ethiodides, *p*-dimethylaminoanils of (HAMER), 2407.
*iso***Naphthathioxin**, synthesis of (COHEN and SMILES), 209.
Naphthindole, thio-, and its acetyl derivative (MCCLELLAND), 1588.
Naphthoic acids, substituted, *l*-menthyl esters, rotation of (RULE, SPENCE, and BRETSCHER), 2516.
chloro-, hydroxy-, and nitro-, *l*-menthyl esters (RULE, SPENCE, and BRETSCHER), 2520.
α- and β-**Naphthols**, structure of (KING), 601.
reaction of ethyl ether, acetyl bromide and (BASSETT and TAYLOR), 1568.
Naphthyl sulphates, amino- and nitro-, potassium derivatives (BURKHARDT and WOOD), 144.
p-**Naphthylamine**, nitration of (BELL), 2784.
Nickel, combination of hydrogen and oxygen on surface of (DONNELLY), 2438.
Nickel chloride, action of hexamethylenetetramine with (DUFF and BILLS), 411.
chromates (BRIGGS), 245.
Nicotine, isolation of, from tobacco, and its tetrachloroiodide (CHATTAWAY and PARKES), 1314.
properties of, and its derivatives (LOWRY and LLOYD), 1376, 1771.
determination of (CHATTAWAY and PARKES), 2817.
Nicotinic acid *tetra*chloroiodide (CHATTAWAY and PARKES), 1315.
Nitration of benzyl derivatives of antimony, arsenic and phosphorus compounds (CHALLENGER and PETERS), 2610.
Nitriles, unsaturated isomeric, preparation and interconversion of (KANDIAH and LINSTEAD), 2139.
Nitroamines, interaction of, with sulphonyl chlorides (BELL), 2787.
Nitro-compounds, reduction of, in pyridine solution (BRADY, DAY, and REYNOLDS), 2264.
Nitrogen, active, decay of after-glow in (WILLEY), 228.
Nitrogen *mon*oxide (*nitrous oxide*), infrared emission spectra of flames in (BAILEY and LIH), 57.
mono- and *di*-oxides, combustion of charcoal in (SHAH), 2661, 2676.
per- or *tetr*-oxide, photochemical equilibria in (NORRISH), 1158, 1604, 1611.
effect of drying on (SMITS, SWART, and BRUIN), 2716.
Nitrous acid, action of, on amino-compounds (TAYLOR and PRICE), 2052.
N-**Nitrosoamines**, formation of, from tertiary amines (MACMILLAN and READE), 2863.
elimination of the nitroso-group from (MACMILLAN and READE), 585.
Nitrosulphonyl chlorides, reactions of (DANN and DAVIES), 1050.
Nitrosylsulphuric acid, and its anhydride (JONES, PRICE, and WEBB), 312.
Nonane-1:9-dicarboxydi-β-phenylethylamide (CHILD and PYMAN), 2015.
Nonane-1:9-dicarboxydi-β-veratrylethylamide (CHILD and PYMAN), 2016.
Norsantonous acid (CLEMO, HAWORTH, and WALTON), 2384.
Nor-*d*-ψ-ephedrine, resolution of externally compensated acids by means of (GIBSON and LEVIN), 2754.

O.

Oats, amylase of (BAKER and HULTON), 1655.

Obituary notices:—
Ernest Edward Mabbott, 2969.
Francis Edward Matthews, 2970.
James Moir, 2972.
Thomas Burr Osborne, 2974.
Joseph Tcherniac, 2976.
3′-Octabenzo-β-naphtha*spiro*pyran (Heilbron and Irving), 942.
β-Octanols, isomeric, configuration and interconversion of (Houssa, Kenyon, and Phillips), 1700.
Octaphenyl*cyclo*silicotetrane, formation of tri- and tetra-phenylsilicanes from (Kipping and Murray), 360.
Octa-*p*-tolylsilicotetrane, and its derivatives (Steele and Kipping), 2545.
Octa-*p*-tolyl*cyclo*silicotetrane (Steele and Kipping), 2545.
***d*-β-Octyl** chlorocarbonate, reactions of (Houssa and Phillips), 2510.
3′-Octyldi-β-naphtha*spiro*pyran (Heilbron and Irving), 943.
Oils, rate of saponification of, by alkalis (McBain, Humphreys, and Kawakami), 2185.
hydrocarbon, light, analysis of (Manning), 1014.
***iso*Opianic acid**, synthesis of (Chakravarti and Perkin), 193.
Optical activity and polarity of substituent groups (Rule and MacGillivray), 401; (Rule, Miles, and MacGillivray), 2274; (Rule, Spence, and Bretscher), 2516; (Rule), 2524.
inversion, Walden's (Rördam), 1282.
Optically active compounds, influence of solvents and other factors on rotation and rotation-dispersion of (Patterson and Lawson), 2042; (Patterson and Todd), 2876.
Organic compounds, rotatory dispersion of (Lowry), 2853, 2858.
with closed chains, history of synthesis of (Perkin), 1347.
determination of selenium and tellurium in, microchemically (Drew and Porter), 2091.
Oxalic acid, catalysis in dissociation of (Dawson, Hoskins, and Smith), 1884.
cobalt oxy-salts (Percival and Wardlaw), 2628.
complex molybdenum salts (Spittle and Wardlaw), 792.
Oxalodi-β-veratrylethylamide (Child and Pyman), 2015.
Ox-2:5-dimethoxyanilic acid (Gulland, Robinson, Scott, and Thornley), 2929.
1:4-Oxido-Δ²-*p*-menthene (Elson, Gibson, and Simonsen), 2784.
Oximes, isomerism of (Brady and Chokshi), 946, 2271; (Brady and Peakin), 2267.
***syn*-Oximes**, rate of change of, into the *anti*-forms (Patterson and Thomson), 1895.
Ox-6-nitro-3:4-methylenedioxyanilic acid (Gulland, Robinson, Scott, and Thornley), 2931.
Oxydihydrostrychnidine (A) (Perkin and Robinson), 985.
Oxygen, dried, dielectric constant of (Riley), 1026.
combustion of charcoal in (Shah), 2661, 2676.
combination of hydrogen and, on nickel (Donnelly), 2438.
on platinum (Donnelly and Hinshelwood), 1727.
available, determination of, by the Bunsen method (Parker and Robinson), 1106.
oxonium, orienting influence of (Le Fèvre), 2771.

P.

Palmitic acid, allyl and *di*bromohydrin esters (Fairbourne and Cowdrey), 134.
Palmitin di-*p*-nitrobenzoate (Fairbourne and Cowdrey), 135.
Parachloral, *di*- and *tri*-thio- (Chattaway and Kellett), 2914.
Parachor and chemical constitution (Sugden), 816; (Henley and Sugden), 1058; (Sugden and Wilkins), 1291; (Garner and Sugden), 1298.
evaluation and interpretation of (Mumford and Phillips), 2112.
of substances in solutions (Hammick and Andrew), 754.
Passivity of metals (Evans), 92.
Pedler Lecture (Perkin), 1347.
Pentacosanic acid, heat of crystallisation of (Garner and King), 1860.
3:5:8:3′:4′-Pentamethoxyflavone, 7-hydroxy- (Baker, Nodzu, and Robinson), 79.
3:6:7:3′:4′-Pentamethoxyflavone, 5-hydroxy- (Baker, Nodzu, and Robinson), 81.
Pentamethoxy-2-methyl*iso*flavone, 5-hydroxy-. See 2-Methylirigenin dimethyl ether.
6:7:3′:4′:5′-Pentamethoxy-2-styryl*iso*flavone, 5-hydroxy- (Baker and Robinson), 159.
αε-Pentamethylene *di*selenocyanate (Morgan and Burstall), 2202.

*cyclo*Pentamethylene *di*selenide (MORGAN and BURSTALL), 2202.
Pentamethylene glycol, urethanes from (BENNETT and HEATHCOAT), 273.
Pentamethylenemethylsulphonium salts (BENNETT, HEATHCOAT, and MORRIS), 2571.
Pentane vapour, effect of carbon dioxide on pressure of (SAYCE and BRISCOE), 1303.
*cyclo*Pentane-1-acetone-1-acetic acid, and its derivatives (QUDRAT-I-KHUDA), 719.
*cyclo*Pentane-1-acetone-1-malonic acid, and its derivatives (QUDRAT-I-KHUDA), 719.
*cyclo*Pentane-1:1-dicarboxylic acid, preparation of, and its disodium salt, and their dissociation constants (VOGEL), 1489.
*cyclo*Pentane-1:2-dicarboxylimide (MENON and SIMONSEN), 304.
*cyclo*Pentane*spirocyclo*-3-hydroxy-6-cyano-3-methyl-5-piperidone (QUDRAT-I-KHUDA), 719.
*cyclo*Pentane*spiro*-4-methyl*cyclo*hexane-3:5-dione (DICKINS, HUGH, and KON), 576.
*iso*Pentanesulphinic acid, silver salt (FENTON and INGOLD), 2341.
*cyclo*Pentanone *m*-nitrophenylhydrazone (PLANT), 2495.
*cyclo*Pentanone-2-carboxyanilide (BLOUNT, PERKIN, and PLANT), 1983.
Δ^3-*cyclo*Pentene, 1:2-*di*bromo- (FARMER and SCOTT), 177.
*cyclo*Pentenylacetone (DICKINS, HUGH, and KON), 578.
Δ^1-*cyclo*Pentenylmethyl ethyl ketone, and its semicarbazone (DICKINS, HUGH, and KON), 576.
Penthian series (BENNETT and WADDINGTON), 2829, 2832.
Penthianolcarboxylic acid (BENNETT and WADDINGTON), 2831.
Penthian-4-ol-4-carboxylic acid oxides (BENNETT and WADDINGTON), 2836.
Penthian-4 one, and its derivatives (BENNETT and WADDINGTON), 2829.
Penthienoindole, and 8-bromo- (BENNETT and WADDINGTON), 2830.
Pentoses, production of kojic acid from (CHALLENGER, KLEIN, and WALKER), 1498.
*cyclo*Pentylideneacetone (DICKINS, HUGH, and KON), 577.
*cyclo*Pentylideneacetonitrile (KANDIAH and LINSTEAD), 2151.
*cyclo*Pentylidenemethyl ethyl ketone, and its semicarbazido-semicarbazone (DICKINS, HUGH, and KON), 575.
Periodic structures, formation of, by salting-out and by coagulation (HEDGES), 2779.
Peroxides, detection of (KING), 750.
Phenanthra-*tert.*-butylphenazine, preparation of (SHOESMITH and MACKIE), 477.
Phenanthrene, *di*nitro- (CALLOW and GULLAND), 2425.
9-Phenanthrylaminoacetonitrile (CALLOW and GULLAND), 2425.
Phenarsazinic acid, 2:4.6:8-*tetra*bromo (ELSON, GIBSON, and JOHNSON), 1088.
Phenol, 3:4:6-*tri*bromo-2-nitro- (HODGSON and NIXON), 2424.
m-chloro-, nitrosation of (HODGSON and KERSHAW), 1553.
2:4-*di*chloro-3- and -5-nitro- (GROVES, TURNER, and SHARP), 517, 522.
m-fluoro-, Reimer-Tiemann reaction with (HODGSON and NIXON), 1632.
3-fluoro-2-bromo- (HODGSON and NIXON), 1636.
β-Phenol, *p*-nitro-, formation of (DUFF), 2789.
Phenols, and their ethers, Tesla-luminescence spectra of (MACMASTER, RUSSELL, and STEWART), 2401.
nitrosation of (HODGSON and KERSHAW), 1553.
introduction of the triphenylmethyl group into (HARDY), 1000.
Phenols, *di*chloronitro- (HODGSON and KERSHAW), 2922.
o- and *p*-nitro-, solubilities of, in methyl alcohol solutions (DUFF), 2789.
Phenol ethers, halogenation of (BRADFIELD, JONES, and ORTON), 2810.
Phenolcinchomeronein (TEWARI), 1643.
Phenolic compounds, acylated, migration of acyl group in (PERKIN and STORY), 1399.
Phenoxides, colloidal (BAKER and EASTWOOD), 2897.
Phenoxy*tri*chlorosilicane (THOMPSON and KIPPING), 1177.
Phenoxychlorosilicanes, action of sodium on (THOMPSON and KIPPING), 1176.
β-Phenoxyethylaniline (PEACOCK, BHATTACHARYA, and RAO), 1926.
β-Phenoxyethyl-*p*-chloroaniline (PEACOCK, BHATTACHARYA, and RAO), 1926.
β-Phenoxyethyl-α-naphthylamine (PEACOCK, BHATTACHARYA, and RAO), 1927.
β-Phenoxyethyltoluidines (PEACOCK, BHATTACHARYA, and RAO), 1926.
γ-Phenoxy-α-phenyl*iso*propyl alcohol (BOYD and VINEALL), 1622.

Phenyl barium phosphate (PLIMMER and BURCH), 296.
benzyl ethers, rearrangement of (SHORT and STEWART), 553.
ε-chloroamyl and δ-chlorobutyl sulphides (BENNETT, HEATHCOAT, and MOSSES), 2569.
ε-hydroxyamyl sulphide, and its phenylurethane (BENNETT and HEATHCOAT), 274.
δ-hydroxybutyl sulphide, and its phenylurethane (BENNETT and HEATHCOAT), 273.
*iso*propyl ether, *p*-chloro- (BRADFIELD, JONES, and ORTON), 2815.
selenium bromide, parachor of (HENLEY and SUGDEN), 1063.
sulphates, amino- and nitro-, hydrogen and potassium derivatives (BURKHARDT, and WOOD), 146.
Phenylacetylacetone-*o*-carboxylic acid (HURTLEY), 1871.
Phenylalanines, hydroxy-, isomeric (DICKINSON and MARSHALL), 1495.
***dl*-*N*-Phenylalanineamide-4-arsinic acid**, resolution of (GIBSON and LEVIN), 2737.
***N*-Phenylalanine-4-arsinic acid**, and its amide and esters, resolution of (GIBSON, JOHNSON, and LEVIN), 483.
Phenylarsinic acids, *di*amino-, *mono*-, and *di*-nitroamino-, and their acetyl derivatives (PHILLIPS), 2826.
bromo-, chemotherapy of (HAYTHORNTHWAITE), 1011.
bromo-, bromonitro-, chloronitro-, iodo-, iodonitro-, and nitrohydroxy-, and their derivatives (BARBER), 2335.
2-bromo-4-amino-, and its acetyl derivative, 3-bromo-4-hydroxy-, and 2-nitro-4-amino-, acetyl derivative (HAYTHORNTHWAITE), 1013.
halogeno-, nitration of (BARBER), 2333.
9-Phenyl-10-benzhydryl-9:10-dihydroanthranol-9 (BARNETT and GOODWAY), 1757.
***iso*-9-Phenyl-10-benzhydryl-9:10-dihydroanthranol**, 1:5-*di*chloro- (BARNETT and GOODWAY), 22.
1-Phenylbenziminazole, and 5-amino-, and 5-nitro- (PHILLIPS), 2822.
1-Phenylbenziminazole-5-arsinic acid (PHILLIPS), 2823.
***N*-Phenylbenzimino-2:4-*di*chlorophenyl ether**, *N*-2:4-*di*chloro- (CHAPMAN), 571.
***N*-Phenylbenzimino-2:4:6-*tri*chlorophenyl ether**, *N*-*o*- and -*p*-chloro- (CHAPMAN), 570.
3-Phenylbenzo-β-naphtha*spiro*pyran (HEILBRON and IRVING), 940.
2-Phenylbenzopyrylium salts, and 3- and 4-nitro- (LE FÈVRE), 2771.
1-Phenyl-1:2:3-benztriazole-5-arsinic acid, and 4-hydroxy- (BARBER), 474.
Phenylbenzylamine, nitration of derivatives of, and nitroso-4-nitro- (REILLY, DRUMM, and CREEDON), 641.
Phenylbenzyl ketone, 2:5-*di*hydroxy- (BAKER and EASTWOOD), 2905.
Phenylbromoacetonitrile, *p*-nitro- (BAKER and INGOLD), 446.
Phenylbromocyanonitromethane, nitration of (BAKER and INGOLD), 423.
6-Phenylcarbamyl-2:3:4:5:6:13-hexahydro-α-quinidene (BLOUNT, PERKIN, and PLANT), 1985.
***N*-Phenylcarbazole**, 2′:4′-*di*nitro- (LE FÈVRE), 737.
Phenyl*di*chloroarsine, parachor of (HENLEY and SUGDEN), 1062.
3-Phenylcoumarin, 5:7:3′:4′-*tetra*hydroxy- (BAKER), 1598.
Phenyldi-*n*- and -*iso*-amylphosphines, and their mercurichlorides (DAVIES, PEARSE, and JONES), 1266.
Phenyldi-*n*-butylphosphine (DAVIES and JONES), 34.
Phenyldi*iso*butylphosphine, and its mercurichloride (DAVIES, PEARSE, and JONES), 1265.
1-Phenyl-1:2-dihydrobenz*iso*thiazole, 2-thio- (MCCLELLAND, WARREN, and JACKSON), 1585.
2-Phenyl-4:5-dihydroglyoxaline, 2-*o*-thiol-, and its salts (MCCLELLAND and WARREN), 2624.
3-Phenyl-2-(3:4-dimethoxyphenyl)-benzo γ-pyrone, 7-hydroxy- (BAKER and EASTWOOD), 2904.
Phenyldi-(δ-methylamyl)phosphine (DAVIES, PEARSE, and JONES), 1268.
Phenyldi-(*dl*-β-methylbutyl)phosphine, and its mercurichloride (DAVIES, PEARSE, and JONES), 1266.
4-Phenyl-2.6-dimethyl-1:4-dihydropyridine-3:5-dicarboxylic acids, chloro- and hydroxy-, ethyl esters (HINKEL and MADEL), 753.
4-Phenyl-2:6-dimethylpyridine-3:5-dicarboxylic acids, chloro-, ethyl esters (HINKEL and MADEL), 753.
Phenyldi-*n*-propylphosphine, and its derivatives (DAVIES, PEARSE, and JONES), 1264.
***o*-Phenylenediamines**, action of, on dihydroxytartaric acid (CHATTAWAY and HUMPHREY), 645.
***m*-Phenylenediaminecinchomeronein** (TEWARI), 1644.

δ-Phenylethylamine, β-3-amino- and β-3-nitro-, and their hydrochloride (GULLAND, HAWORTH, and VIRDEN), 1671.

Phenylethyldi-*n*-butylphosphonium iodide (DAVIES and JONES), 34.

Phenylethyldimethylamines, α-hydroxy-, isomeric, and their methylurethanes and their miotic activity (E. and E. STEDMAN), 609.

Phenylethyldi-(δ-methylamyl)phosphonium iodide (DAVIES, PEARSE, and JONES), 1268.

Phenylethylpyridones, 3-cyano- (BARDHAN), 2229.

4-Phenyl-6-ethyl-α-pyrone-3-carboxylic acid, ethyl ester (BARDHAN), 2229.

***N*-β-Phenylethylsuccinimide** (CHILD and PYMAN), 2014.

β-Phenylethyltriethylphosphonium hydroxide, and its picrate (FENTON and INGOLD), 2353.

β-Phenylgalactoside, *p*-hydroxy-, and its tetra-acetyl derivative (ROBERTSON), 1821.

Phenyl glycide, reaction between magnesium phenyl bromide and (BOYD and VINEALL), 1622.

Phenylglyoxylanilide, *o*-amino-, benzoyl derivative, and its anil (CALLOW and HOPE), 1196.

Phenylglyoxylic acid, 2-amino-, β-phenylethylamine salt (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1672.
benzoyl derivative, aniline salt and ethyl ester (CALLOW and HOPE), 1196.

Phenylglyoxylo-β-phenylethylamide, 2-amino-, benzoyl derivative (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1672.

Phenyl*cyclo*hexane, and its *p*-amino- and *p*-halogeno-derivatives, nitration of (MAYES and TURNER), 500.

Phenyl*cyclo*hexane, 4-chloro-2:5-*di*amino- (MAYES and TURNER), 508.

Phenylhydrazine, 2:4-*di*nitro-, hydrochloride, action of, on aldoximes and their derivatives (BRADY and PEAKIN), 478.

Phenylhydrazones, nitro-, absorption spectra of, in alcohol and in alcoholic potassium hydroxide (HODGSON and COOPER), 231.

1-Phenyl-2-α-hydroxyethylbenziminazole-5-arsinic acid (PHILLIPS), 2823.

2-Phenyliminomethyl*cyclo*pentanone-4′-sulphonic acid (BLOUNT, PERKIN, and PLANT), 1986.

3-Phenyl-$\Delta^{1:3}$-menthadiene (READ and WATTERS), 2170.

3-Phenylmenthan-3-ol (READ and WATTERS), 2171.

Phenyl-*p*-methoxybenzyl ketone, 2:4-*di*hydroxy- (BAKER and EASTWOOD), 2902.

Phenyl-*p*-methoxyphenylbenzo-γ-pyrones, 7-*mono*- and 5:7-*di*-hydroxy- (BAKER and EASTWOOD), 2903.

α-Phenyl-γ-*p*-methoxyphenyl-Δβ-propene, preparation of (INGOLD and SHOPPEE), 450.

α-Phenyl-γ-methylallyl alcohol, and its acetate (BURTON), 456.

1-Phenyl-2-methylbenziminazole, and 5-amino- (PHILLIPS), 2822.

***N*-Phenyl-2-methylbenziminazole-5(6)-arsinic acid** (BARBER), 474.

Phenylmethyldi-*n*- and **-*iso*-amylphosphonium** iodides (DAVIES, PEARSE, and JONES), 1266.

Phenylmethyldi-*n*- and **-*iso*-butylphosphonium** iodides (DAVIES and JONES), 34.

Phenylmethyldi-(δ-methylamyl)phosphonium iodide (DAVIES, PEARSE, and JONES), 1268.

Phenylmethyldi-(*dl*-β-methylbutyl)-phosphonium iodide (DAVIES, PEARSE, and JONES), 1266.

Phenylmethyldi-*n*-propylphosphonium iodide (DAVIES, PEARSE, and JONES), 1264.

Phenylmethylnitrosoamine, 4-bromo-2- and -3-nitro-, 4-nitro- and 3:6-*di*nitro- (MACMILLAN and READE), 2866.

4-Phenyl-1-methylpenthian-4-ol-sulphonium salts (BENNETT and WADDINGTON), 2837.

Phenylmethylpyridones, and 3-cyano- (BARDHAN), 2228.

Phenyl-α-naphthylamine, *tetra*bromo- (ELSON, GIBSON, and JOHNSON), 1086.

2-Phenylnaphthylene-1:3-diamine, preparation and resolution of, and isomerism of its derivatives (LESSLIE and TURNER), 1512.

Phenylnitroamine, 2:4-*di*bromo- (BRADFIELD and ORTON), 918.

Phenylnitroamines, transformation of, into nitroanilines (BRADFIELD and ORTON), 915.

Phenyl-3-nitrobenzyl-*n*-butylamine (REILLY, DRUMM, and CREEDON), 643.

Phenyl*di*-*m*-nitrodibenzylamine (REILLY, DRUMM, and CREEDON), 644.

Phenylnitromethane, ψ-acidic, and its salts, nitration of (BAKER), 2257.

Phenylpentamethylenesulphonium salts (BENNETT, HEATHCOAT, and MOSSES), 2570,

4-Phenylpenthian-4-ol, and its derivatives (BENNETT and WADDINGTON), 2831.
4-Phenylpenthian-4-ol oxides (BENNETT and WADDINGTON), 2834.
4-Phenylpenthian-4-ol-1-*p*-toluenesulphonylimine (BENNETT and WADDINGTON), 2838.
1-Phenylphthalazine, and nitro- (AGGARWAL, DARBARI, and RÂY), 1945.
1-Phenylphthalazine, 6(or 8)-nitro- (RÂY), 2661.
***N*-Phenylphthalimide**, 2:4-*di*chloro- and 2:4-*di*chloro-5-nitro- (GROVES, TURNER, and SHARP), 518.
Phenylpiperidine, 4-chloro-2:6-*di*nitro- (GROVES, TURNER, and SHARP), 521.
β-Phenylpropionamide, β-3-nitro- (GULLAND, HAWORTH, and VIRDEN), 1671.
β-Phenylpropionic acid, β-3:5-*di*nitro-4-hydroxy- (CALLOW, GULLAND, and HAWORTH), 1452.
2:3-(2′-Phenylpyrrolo)(4′:5′)-quinoline, and its methosulphate (ROBINSON), 2950.
β-Phenyl-4-quinolone-3-propionic acid (PLANT), 2497.
Phenylseleninic acid, perachor of (HENLEY and SUGDEN), 1064.
Phenylsilicon *tri*chloride (KIPPING, MURRAY, and MALTBY), 1184.
3-Phenyl-2-styrylbenzo-γ-pyrones, 7-*mono*- and 5:7-*di*-hydroxy-, and 7-cinnamoyl derivative of the latter (BAKER and EASTWOOD), 2901.
Phenyl styryl ketones, synthesis of (CULLINANE and PHILPOTT), 1761.
Phenylsuccinic acid series (WREN and WRIGHT), 136, 138.
Phenyltetramethylenesulphonium salts (BENNETT, HEATHCOAT, and MOSSES), 2570.
Phenylthioarsenious acid, *o*-bromo-, di(carbamylmethyl)ester (BARBER), 2335.
Phenylthioarsinous acid, 4-amino-, 3-amino-4-hydroxy-, and 5-amino-2-hydroxy-, 5-acetyl derivative, esters of (BARBER), 1022.
Phenyl-*m*-tolylamine, and its benzoyl derivative (GIBSON and JOHNSON), 1475.
1-Phenyl-*p*-tolylmethyltelluronium salts (LOWRY and GILBERT), 2873.
Phenyltrimethylammonium *di*chloroiodide, dissociation of, in solutions (READE), 853.
Phenyltri-*n*-propylphosphonium bromide (DAVIES, PEARSE, and JONES), 1264.
Phloroglucinolcinchomeronein (TEWARI), 1643.
Phosphines, tertiary (DAVIES and JONES), 33; (DAVIES, PEARSE, and JONES), 1262.
Phosphonium hydroxides, quaternary, thermal decomposition of (FENTON and INGOLD), 2342.
Phosphorus, oxidation of vapour of (BOWEN and CAVELL), 1920.
slow oxidation of (MILLER), 1823, 1829.
Phosphorus *penta*chloride, action of, on ethyl tartrate (PATTERSON and TODD), 1768.
*tri*oxide, vapour pressure of (MILLER), 1828.
*penta*oxide, action of, on β-anilinobutyracetal (MASON), 1560.
oxychloride. See Phosphoryl chloride.
Phosphorus organic compounds, nitration of benzyl derivatives of (CHALLENGER and PETERS), 2610.
Phosphoric acid, esters of (PLIMMER and BURCH), 279, 292.
Phosphoryl chloride (*phosphorus oxychloride*), structure of compound of stannic chloride and (GARNER and SUGDEN), 1298.
Photochemical reactions, connexion between absorbed energy and velocity in (ALLMAND), 1557.
Phthalazines (AGGARWAL, DARBARI, and RÂY), 1941.
Phthalic acid, chlorination of, in alkaline solution (AYLING), 253.
***iso*Phthalic acid**, 5-nitro-, methyl ester, additive compound of α-naphthylamine with (BENNETT and WILLIS), 266.
8-β-Phthalimidoethylamino-6-methoxyquinoline, and its salts (BALDWIN), 2962.
β-Phthalimidoethyl-6-methoxyquinolinium bromide (SESHADRI), 2954.
1-β-Phthalimidoethyl-6-methoxy-2-quinolone (SESHADRI), 2956.
β-Phthalimidoethyl*iso*quinolinium bromide (SESHADRI), 2958.
1-β-Phthalimidoethyl-2-quinolone (SESHADRI), 2953.
8-γ-Phthalimidopropylamino-6-methoxyquinoline (BALDWIN), 2963.
γ-Phthalimidopropyl-6-methoxyquinolinium bromide (SESHADRI), 2956.
1-γ-Phthalimidopropyl-6-methoxy-2-quinolone (SESHADRI), 2957.
8-γ-Phthalimidopropyl-6-methylquinoline, and its dihydrochloride (BALDWIN), 2964.
γ-Phthalimidopropylquinolinium bromides (SESHADRI), 2954.
2-γ-Phthalimidopropyl*iso*quinolone (SESHADRI), 2959.

β-Phthalimidoquinolinium bromide (SESHADRI), 2953.
2-β-Phthalimido*iso*quinolone (SESHADRI), 2958.
Physical chemistry in the service of biology (DONNAN), 1387.
Pimelic acid, catalytic and thermal decomposition of (VOGEL), 728.
Pimelodi-β-phenylethylamide (CHILD and PYMAN), 2015.
Pimelodi-β-veratrylethylamide (CHILD and PYMAN), 2016.
Pinacols, production of (HATT), 1623.
Pinus longifolia, Indian turpentine from (GIBSON and SIMONSEN), 305.
Piperazine, *N*-substituted derivatives of (MOORE, BOYLE, and THORN), 39.
Piperazine-1-carboxylic acid, ethyl ester (MOORE, BOYLE, and THORN), 45.
Piperazinoacetic acid, and its hydrochloride (MOORE, BOYLE, and THORN), 48.
Piperazino-γ-butyric acid, and its chloroplatinate (MOORE, BOYLE, and THORN), 49.
Piperazino-β-propionic acid, and its dihydrochloride (MOORE, BOYLE, and THORN), 49.
Piperic acid, hydrogenation of (LEBEDEV and YAKUBCHIK), 220.
Piperidine, action of, on diaryl ethers (GROVES, TURNER, and SHARP), 512.
9-Piperidinomethylmethylanthracenes, and 10-bromo- (BARNETT and GOODWAY), 1760.
4-Piperidinophenyl*cyclo*hexane, 2:5-*di*nitro- (MAYES and TURNER), 505.
N-**Piperidyl-lupinine**, and its dimethiodide (CLEMO and RAPER), 1938.
Piperitone, and its derivatives (READ, WATTERS, ROBERTSON, and HUGHESDON), 2068; (READ and WATTERS), 2165.
Piperonaldehyde benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1944.
Piperonylideneaminobenzoic acids (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1674.
Plants, fossil, constituents of cuticle of (LEGG and WHEELER), 2449.
Plant cuticles (LEGG and WHEELER), 2444, 2449.
Plant substances, oils from (HOLROYD and WHEELER), 633.
Platinum, colloidal (PENNYCUICK), 618, 623.
Polarimetry of intramolecular rearrangement in inactive substances (PATTERSON and THOMSON), 1895.
Polarisation, electrolytic (GLASSTONE), 690.
Polarity and optical activity of substituent groups (RULE and MACGILLIVRAY), 401; (RULE, MILES, and MACGILLIVRAY), 2274; (RULE, SPENCE, and BRETSCHER), 2516; (RULE), 2524.
Polysaccharides (HAMPTON, HAWORTH, and HIRST), 1739; (HAWORTH, HIRST, and WEBB), 2479.
Potassium *di*chromate, photochemical oxidation of ethyl alcohol by (BOWEN and YARNOLD), 1648.
Dipotassium molybdenyl *penta*bromide (ANGELL, JAMES, and WARDLAW), 2581.
Potassium selenate, solubility of, in water between 0° and 100° (FRIEND), 2782.
*hexa*thionate (PARTINGTON and TIPLER), 1382.
Potassium organic compounds:—
Potassium amino- and nitro-naphthyl and -phenyl sulphates, and their derivatives (BURKHARDT and WOOD), 144.
Potential, electrokinetic, in relation to coagulation of colloids (GHOSH), 2693.
Propaldehyde, emission of light from phosphorescent flames of (EMELÉUS), 1733.
Propane, *αβγ-tri*amino-, complex salts of metallic halides with (MANN), 656.
*cyclo***Propane-1:1-dicarboxylic acid**, preparation of, and its di-sodium salt, and their dissociation constants (VOGEL), 1488.
Propanesulphinic acids, silver salts (FENTON and INGOLD), 2340.
Propionic acid, basic beryllium salt, parachor of (SUGDEN), 328.
Propionylacetone, and its aluminium and beryllium derivatives, parachors of (SUGDEN), 327.
Propyl barium phosphate (PLIMMER and BURCH), 295.
n-**Propylamine**, action of nitrous acid on (TAYLOR and PRICE), 2052.
8-Propylamino-6-ethoxyquinoline, 8-γ-amino-, and its dihydrochloride (BALDWIN), 2964.
8-Propylamino-6-methoxyquinoline, 8-γ-amino-, *di*hydrochloride (BALDWIN), 2962.
8-Propylamino-6-methylquinoline, 8-γ-amino-, *di*hydrochloride (BALDWIN), 2964.
3′-*iso*Propylbenzo-β-naphtha*spiro*pyran (HEILBRON and IRVING), 941.
3′-*iso*Propyldi-β-naphtha*spiro*pyran (HEILBRON and IRVING), 942.

9-*iso*Propylfluorene (MAITLAND and TUCKER), 2564.
β-*iso*Propylglutaconic acid, attempted synthesis of (GIBSON and SIMONSEN), 1074.
β-*iso*Propylglutaric acid, α-bromo-, ethyl ester (GIBSON and SIMONSEN), 1078.
***dl*-β-*iso*Propylglutaric acid**, *dl*-α-hydroxy-, lactone, and its ethyl ester (GIBSON and SIMONSEN), 1079.
Propyl-6-hydroxyquinolinium chloride hydrochloride, γ-amino- (SESHADRI), 2957.
1-Propyl-6-hydroxy-2-quinolone hydrochloride, 1-γ-amino- (SESHADRI), 2958.
9-*iso*Propylidenefluorene, preparation of (MAITLAND and TUCKER), 2563.
8-*m*-Propyl-$\Delta^{1:3}$-menthadiene (READ and WATTERS), 2170.
3-*n*-Propylmenthan-3-ol (READ and WATTERS), 2171.
3-*iso*Propylpyridine, 2:6-*di*hydroxy-, and its derivatives (GIBSON and SIMONSEN), 1078.
4-*iso*Propylpyridine, 2:6-*di*hydroxy-3-cyano- (GIBSON and SIMONSEN), 1077.
Propylquinolinium salts, γ-amino- (SESHADRI), 2954.
Propylquinolones, γ-amino- (SESHADRI), 2954.
Proteins, effect of, on coagulation of bentonite suspensions by electrolytes (GHOSH), 2285.
Prototropy in symmetrical triad systems (INGOLD and SHOPPEE), 1199.
three-carbon (INGOLD and SHOPPEE), 447.
Pyrazinetetracarboxylic acid, and its potassium hydrogen salt and tetraethyl ester (CHATTAWAY and HUMPHREY), 651.
Pyridinium *di*chloroiodide, dissociation of, in solutions (READE), 853.
molybdenyl bromides (ANGELL, JAMES, and WARDLAW), 2582.
Pyrocatechol dibenzyl ethers, 4-amino- and 4-nitro- (BALABAN), 1092.
Pyroterebic acid, ethyl ester (LINSTEAD), 2506.
2:3-Pyrrolo(4′:5′)-quinoline (ROBINSON), 2949.
Pyruvic acid, action of bromine on (HUGHES and WATSON), 1946.

Q.

Quercetagetin, synthesis of, and its hexa-acetyl derivative (BAKER, NODZU, and ROBINSON), 74.
Quinaldine. See 2-Methylquinoline.
Quinaldinic acid, preparation of (TAYLOR), 1110.
Quinaldinyl chloride, preparation of (HAMMICK and DICKINSON), 214.
Quinaldinylacetoacetic acid, ethyl ester (HAMMICK and DICKINSON), 215.
Quindoline, 3:4-*di*hydroxy-, and its hydrochloride (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2938.
***iso*Quinoline bases**, containing two *iso*quinoline rings (CHILD and PYMAN), 2010.
Quinolinium molybdenyl bromides (ANGELL, JAMES, and WARDLAW), 2582.
Quinoxaline *tetra*chloroiodide (CHATTAWAY and HUMPHREY), 649.
Quinoxaline, 6-bromo- and 6-chloro- (CHATTAWAY and HUMPHREY), 650.
Quinoxalines, synthesis of (HENDERSON), 466.
Quinoxaline-2:3-dicarboxylamic acid (CHATTAWAY and HUMPHREY), 648.
Quinoxaline-2:3-dicarboxy-*p*-bromo-*o*-phenylenediamide, 6-bromo- (CHATTAWAY and HUMPHREY), 649.
Quinoxaline-2:3-dicarboxy-*p*-chloro-*o*-phenylenediamide, 6-chloro- (CHATTAWAY and HUMPHREY), 649.
Quinoxaline-2:3-dicarboxylic acid, and 6-bromo-, and 6-chloro-, and their salts and derivatives (CHATTAWAY and HUMPHREY), 647.
Quinoxaline-2:3-dicarboxylimide, and its acetyl derivative (CHATTAWAY and HUMPHREY), 648.
Quinoxaline-2:3-dicarboxy-*o*-phenylenediamide (CHATTAWAY and HUMPHREY), 647.

R.

Racemic acid, esters, liquid (CAMPBELL), 1111.
Reactions, elimination, influence of poles and polar linkings on (FENTON and INGOLD), 2338, 2342; (INGOLD and JESSOP), 2357.
Reactivity of adjacent atoms or groups, influence of sulphur atoms on (BENNETT, HEATHCOAT, and MOSSES), 2567.
Reimer-Tiemann reaction, influence of substituents on (HODGSON and JENKINSON), 469, 1639.
with *m*-fluorophenol (HODGSON and NIXON), 1632.
Resorcinol, substitution in derivatives of (RAO, SRIKANTIA, and IYENGAR), 1578.

Resorcinolcinchomeronein (TEWARI), 1643.
Rings, "strainless" (RAO), 1954.
Rotation and chemical constitution (BURGESS and HUNTER), 2838.
influence of solvents and other factors on, of optically active compounds (PATTERSON and LAWSON), 2042; (PATTERSON and TODD), 2876.
Rubber gels, vapour pressure diminution of (STAMBERGER), 2318.
Rubidium:—
Dirubidium molybdenyl *penta*bromide (ANGELL, JAMES, and WARDLAW), 2581.

S.

Salicylaldehyde, and its methyl ether, preparation of (COPISAROW), 588.
Salicylic acid, *l*-menthyl ester (RULE and MACGILLIVRAY), 405.
d-β-octyl ester (RULE, MILES, and MACGILLIVRAY), 2279.
4-Salicylideneamino-4′-malonylamidodiphenyl (LE FÈVRE), 735.
Salicylidene-*m*-nitroacetophenone (LE FÈVRE), 2774.
Salts, parachors of (SUGDEN and WILKINS), 1291.
influence of colloids on precipitation of (DICKINSON), 358.
complex (RILEY), 1307.
Santonin, constitution of (CLEMO, HAWORTH, and WALTON), 2368.
dl-**Santonous acid**, synthesis of (CLEMO, HAWORTH, and WALTON), 2368.
Science, co-operation in industry and (THORPE), 834.
Sebacic acid, catalytic and thermal decomposition of (VOGEL), 732.
Sebacodi-β-phenylethylamide (CHILD and PYMAN), 2015.
Sebacodi-*p*-veratrylethylamide (CHILD and PYMAN), 2016.
*cyclo***Selenibutane**, salts of (MORGAN and BURSTALL), 1100.
*cyclo***Selenipentane**, and its derivatives (MORGAN and BURSTALL), 2200.
Selenium, parachor of (HENLEY and SUGDEN), 1060.
action of carbon tetrabromide on (BRISCOE, PEEL, and ROWLANDS), 1766.
Selenium compounds, action of hydrofluoric acid on (PRIDEAUX and MILLOTT), 2703.
Selenium oxychloride, and its monohydrate, molecular weight and parachor of, 1064.
Selenium organic compounds, heterocyclic (MORGAN and BURSTALL), 1096, 2197.
Selenium, determination of, microchemically, in organic compounds (DREW and PORTER), 2091.
*cyclo***Selenobutane**, and its derivatives (MORGAN and BURSTALL), 1096.
Selenocyanic acid, *p*-bromo- and *p*-chloro-phenyl esters, parachors of (HENLEY and SUGDEN), 1063.
tetramethylene ester (MORGAN and BURSTALL), 1101.
*cyclo***Selenopentane**, and its derivatives (MORGAN and BURSTALL), 2199.
Selenophen, mercury compounds of (BRISCOE, PEEL, and YOUNG), 2589.
Selenophen, *di*iodo- (BRISCOE, PEEL, and YOUNG), 2592.
Semicarbazide hydrochloride, action of, on aldoximes and their derivatives (BRADY and PEAKIN), 478.
Semicarbazones, determination of, microchemically (HOBSON), 1384.
Silicon organic compounds (KIPPING and MURRAY), 360; (THOMPSON and KIPPING; KIPPING, MURRAY, and MALTBY), 1180; (STEELE and KIPPING), 2545.
Silver, electrodeposition of, from its complex cyanide solutions (GLASSTONE), 690, 702.
hydrosols, Bredig (BEST and COX), 2727.
Silver carbonate, kinetics of dissociation of (SPENCER and TOPLEY), 2633.
Silver, determination of, volumetrically, in presence of cyanides and halides (BAINES), 2037.
Soap solutions, alkalinity of, measured by indicators (MCBAIN and HAY), 589.
Sodium argentothiosulphates (BAINES), 2763.
chloride, transference of water in electrolysis of solutions of (TAYLOR and SAWYER), 2095.
germanate, hydrolysis of (PUGH), 1994.
Solutions, molecular structure in (HOWELL), 162.
Solvents, influence of polarity of, on velocity of reaction (KERR), 239.
Sorbic acid, reduction of (BURTON and INGOLD), 2035.
Spectra, emission infra-red, of flames in nitrous oxide (BAILEY and LIH), 51.
Tesla-luminescence (MACMASTER, RUSSELL, and STEWART), 2401; (RUSSELL and STEWART), 2407, 2432.
Squalene, constitution of, and its derivatives (HEILBRON, OWENS, and SIMPSON), 873; (HEILBRON and THOMPSON), 883.

Stereoisomerism in polycyclic systems (BLOUNT, PERKIN, and PLANT), 1975.
Sterol group (HEILBRON and SEXTON), 921; (HEILBRON, SEXTON, and SPRING), 926, 2255; (BOSE and DORAN), 2244; (HEILBRON, JOHNSTONE, and SPRING), 2248; (HEILBRON and SPRING), 2807.
Stilbene, 2:4:4′-*tri*nitro-α-cyano- (BENNETT and PRATT), 1468.
Strain constants, classification of compounds according to (MUMFORD and PHILLIPS), 2123.
Strontium chloride, additive compound of, with hexamethylenetetramine (DUFF and BILLS), 418.
Strychnidine, action of hydriodic acid on (PERKIN and ROBINSON), 964.
salts and derivatives of (PERKIN and ROBINSON), 993.
Strychnine (PERKIN and ROBINSON), 964.
Styrylbenziminazole, 2-*di*nitro- (BENNETT and PRATT), 1468.
Styryl *iso*butyl ketone, 2-hydroxy- (HEILBRON and IRVING), 941.
Styryl-4:6-dimethylquinoline, 2-*di*nitro- (BENNETT and PRATT), 1468.
Styryl ketones, intermolecular condensation of (HEILBRON and IRVING), 931.
Styrylmethylquinolines, *di-* and *tri*chloro*di*nitro- and 2-*di*nitro- (BENNETT and PRATT), 1467.
3-Styryl-2-methylquinoxaline (BENNETT and WILLIS), 267.
Styryl *n*-octyl ketone (HEILBRON and IRVING), 936.
Styrylpyridine, α-*di*nitro- (BENNETT and PRATT), 1467.
Styrylpyrylium salts (HEILBRON and IRVING), 936; (IRVING), 1093.
Styrylquinoxalines, colorations of, with sulphuric acid (BENNETT and WILLIS), 267.
Suberic acid, catalytic and thermal decomposition of (VOGEL), 729.
Suberodi-β-phenylethylamide (CHILD and PYMAN), 2015.
Suberodi-β-veratrylethylamide (CHILD and PYMAN), 2016.
Substance, $C_{10}H_{16}O_2$, from piperitone chlorohydrin and silver oxide (READ, WATTERS, ROBERTSON, and HUGHESDON), 2076.
$C_{10}H_9O_5N$, from reduction of 2-nitro-3:4-dimethoxymandelic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2935.
$C_{11}H_{17}ON$, from *l*-piperitone and potassium cyanide (READ and WATTERS), 2172.
Substance, $C_{13}H_9O_4N_3Br_2$, formed in preparation of 3-bromo-2-nitrotoluene (ELSON, GIBSON, and JOHNSON), 2740.
$C_{17}H_{10}O_4$, from oxidation of 2:3:6-trimethylanthraquinone (MORGAN and COULSON), 2556.
$C_{19}H_{16}O_2$, from guaiacol and α-phenylacetoacetic ester (BAKER and EASTWOOD), 2907.
Substitution in aromatic compounds, influence of ψ-acid systems on (BAKER), 2257.
Succinodi-β-phenylethylamide (CHILD and PYMAN), 2014.
Succinodi-β-veratrylethylamide (CHILD and PYMAN), 2015.
Sucrose, compounds of, with lime, strontia, baryta, and potassium chloride (MACKENZIE and QUIN), 956.
Sugars, classification of (MALTBY), 2769.
stereoisomerism in (HAWORTH, HIRST, and MILLER), 2469.
compounds of alkaline earth hydroxides with (MACKENZIE and QUIN), 951.
Sulphates. See under Sulphur.
Sulphindene, 2:3-*di*thio- (MCCLELLAND, WARREN, and JACKSON), 1585.
4-Sulpho-α-naphthaleneazodisulpho-β-naphthyl sodium sulphites (KING), 608.
4-Sulpho-α-naphthaleneazo-6-sulpho-β-naphthyl sodium sulphite (KING), 607.
4-Sulpho-α-naphthaleneazo-3:6:8-trisulpho-β-naphthyl sodium sulphite (KING), 608.
Sulphones, olefinic degradation of (FENTON and INGOLD), 2338.
Sulphonyl chlorides, interaction of nitroamines with (BELL), 2787.
nitro-. See Nitrosulphonyl chlorides.
Sulphur atoms, influence of, on reactivity of adjacent atoms or groups (BENNETT, HEATHCOAT, and MOSSES), 2567.
action of carbon tetrabromide on (BRISCOE, PEEL, and ROWLANDS), 1766.
Sulphur *mono*chloride, action of, on antimony pentachloride (PARTINGTON), 2573.
action of, on arsenic trichloride (PARTINGTON), 2577.
chlorides, molecular extinction coefficients of (LOWRY and JESSOP), 1421.
Sulphates, equilibrium of, with methyl and ethyl alcohols (GIBSON, DRISCOLL, and JONES), 1440.

Systems, symmetrical triad, mobility of (INGOLD and SHOPPEE), 447.

T.

Tartaric acid, methylamine salts (READ, STEELE, and CARTER), 27.
ethyl ester, rotatory dispersion of, in carbon tetrachloride (LOWRY), 2860.
action of phosphorus pentachloride on (PATTERSON and TODD), 1768.

Tartaric acid, *di*hydroxy-, action of *o*-phenylenediamines on (CHATTAWAY and HUMPHREY), 645.

Tautomerism, mechanism of (BAKER), 1205.
keto-lactol (QUDRAT-I-KHUDA), 201, 713, 1913.
mobile anion (BURTON), 455.
three-carbon (DICKINS, HUGH, and KON), 572; (HUGH, KON, and MITCHELL), 1435; (KANDIAH and LINSTEAD), 2139; (LINSTEAD), 2498.
influence of poles and polar linkings on (INGOLD and ROTHSTEIN), 8.
catalysis in (KON and LINSTEAD), 1269.
prototropic (INGOLD and SHOPPEE), 447, 1199.

Tellurium compounds, action of hydrofluoric acid on (PRIDEAUX and MILLOTT), 2703.
quadrivalent, molecular structure of (LOWRY and GILBERT), 2076.

Tellurium chloride, basic, action of, with cresols (MORGAN and BURGESS), 2214.
*tetra*chloride, interaction of dimethylaniline and (MORGAN and BURGESS), 1103.
*di*oxide and oxyfluorides, solubilities of (PRIDEAUX and MILLOTT), 2703.

Tellurium, determination of, microchemically, in organic compounds (DREW and PORTER), 2091.

Tellurones, structure of (LOWRY and GILBERT), 2089.

α-Terpinene, oxidation of, with benzoylhydroperoxide (ELSON, GIBSON, and SIMONSEN), 2732.

***O*-Tetra-acetylgalactosidyl** bromide (ROBERTSON), 1820.

Tetra-acetylglucose, acid catalysis in mutarotation of nitrogen derivatives of (BAKER), 1205.

Tetra-acetylglucosidylbenzylmethylamide, and *p*-chloro- and *p*-cyano-, and their derivatives (BAKER), 1207.

Tetra-acetylglucosidyldiethylamide hydrochloride (BAKER), 1208.

Tetra-acetylglucosidyldimethylamide hydrochloride (BAKER), 1209.

Tetra-acetylglucosidyl-*p*-methylbenzylmethylamide, and its hydrochloride (BAKER), 1207.

Tetra-acetylglucosidylpiperidides, and their hydrochlorides (BAKER), 1208.

Tetra-acetyl *l*-**xylononitrile** (DEULOFEU), 2459.

Tetrabenzylarsonium salts (CHALLENGER and PETERS), 2617.

Tetrahydrocarbazole, derivatives of (PLANT and RUTHERFORD), 1970.

Tetrahydropentindole, 10-nitro-9-hydroxy-, and its 8-benzoyl derivative (PLANT), 2496.

Tetrahydropentindole-8-carboxylic acid, 10-nitro-9-hydroxy-, ethyl ester (PLANT), 2497.

1:2:3:4-Tetrahydroquinolines, substituted, stereoisomerism in (PLANT and ROSSER), 1861.

Tetrahydroselenophen. See *cyclo*Selenobutane.

Tetramethoxyaporphines, synthesis of, and their derivatives (CALLOW, GULLAND, and HAWORTH), 658.

3′:4′:5:6-Tetramethoxy-1-benzyl-3:4-dihydro*iso*quinoline, 2′- and 6′-nitro-, and their methiodides (CALLOW, GULLAND, and HAWORTH), 664.

3′:4′:5:6-Tetramethoxy-1-benzyl-2-methyltetrahydro*iso*quinoline, 2′- and 6′-amino- (CALLOW, GULLAND, and HAWORTH), 665.

3:5:2′:4′-Tetramethoxy-4-bromobenzylidenecoumaran-2-one (CULLINANE and PHILPOTT), 1764.

5:7:3′:4′-Tetramethoxy-3-phenylcoumarin (BAKER), 1598.

4:4′-Tetramethyl*di*aminodiphenyl telluride and telluri*di*halides (MORGAN and BURGESS), 1104.

2:4:5:4′-Tetramethylbenzophenone, and its oxime (MORGAN and COULSON), 2554.

3:7:11:15-Tetramethyl-19-eicosanone (HEILBRON and THOMPSON), 889.

***cyclo*Tetramethylene *di*selenide** (MORGAN and BURSTALL), 1102.

Tetramethylene-αδ-bis*cyclo*selenibutane 1:1′-*di*bromide (MORGAN and BURSTALL), 1101.

αδ-Tetramethylenediseleninic acid *di*nitrate (MORGAN and BURSTALL), 1102.

Tetramethylene-ethylsulphonium salts (BENNETT, HEATHCOAT, and MOSSES), 2571.

Tetramethylene glycol, preparation of, and its bis-α-naphthylurethane (BENNETT and HEATHCOAT), 272.
Tetramethylfructuronic acid, methyl ester (ANDERSON, CHARLTON, HAWORTH, and NICHOLSON), 1345.
l-**2:3:4:6-Tetramethyl δ-gluconolactone**, synthesis of, from *l*-2:3:5-trimethyl arabofuranose (HAWORTH and PEAT), 350.
Tetramethyl-γ- and -δ-gluconolactones, conversion of, into the corresponding mannonolactones (HAWORTH and LONG), 345.
l-**2:3:4:6-Tetramethyl gluconophenylhydrazide** (HAWORTH and PEAT), 357.
Tetramethyl-luteolinidin chloride (BAKER), 1603.
l-**2:3:4:6-Tetramethyl δ-mannonolactone**, synthesis of, from *l*-2:3:5-trimethyl arabofuranose (HAWORTH and PEAT), 350.
Tetramethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2349.
2:3:5:6-Tetramethylpiperazines, stereoisomeric, and their derivatives, and *di*nitroso- (KIPPING), 2889.
Tetramethylpyrazine, preparation of, and its reduction (KIPPING), 2891.
Tetraphenylmethane, 3-bromo- and 3-chloro-4-hydroxy- (HARDY), 1006.
3:4:5-*tri*hydroxy- (HARDY), 1005.
Tetraphenylsilicane, formation of, from octaphenyl*cyclo*silicotetrane (KIPPING and MURRAY), 360.
Tetrapropylammonium picrate, parachor of (SUGDEN and WILKINS), 1297.
Tetra-*n*-propylphosphonium bromide (DAVIES, PEARSE, and JONES), 1264.
Thallium:—
Thallous salts, parachors of (SUGDEN), 326.
NN'-**Thiocarbonyl-2:2'-*di*aminodiphenyl** (LE FÈVRE), 736.
Thiocyanic acid, metallic salts, complex compounds of triaminopropane with (MANN), 656.
sodium salt, solubility of, in water and in organic solvents (HUGHES and MEAD), 2282.
Thiophen, mercury compounds of (BRISCOE, PEEL, and YOUNG), 2589.
Thioxanthone, derivatives of (ROBERTS and SMILES), 863.
l-**Threose**, formation of, and its diacetamide (DEULOFEU), 2458.
Thyronine, 3':5'-*di*bromo-3:5-*di*iodo- (HARINGTON and MCCARTNEY), 897.
Thyroxine, synthesis of an isomeride of (HARINGTON and MCCARTNEY), 892.
Tin, parachor of (GARNER and SUGDEN), 1298.
Tin chlorides, additive compounds of, with hexamethylenetetramine (DUFF and BILLS), 416.
Stannic bromide and chloride, parachors of (GARNER and SUGDEN), 1300.
chloride, structure of compound of phosphorus oxychloride and (GARNER and SUGDEN), 1298.
oxide sols, scattering of light by (GHOSH), 2526.
action of sodium hydroxide on (GHOSH), 2290, 2298.
Tin organic compounds:—
Tin tetraethyl, parachor of (GARNER and SUGDEN), 1301.
Titanium, parachor of (GARNER and SUGDEN), 1298.
Titanium *tetra*chloride, parachor of (GARNER and SUGDEN), 1302.
o-**Tolidine**, molecular compound of *mm'*-dinitrobenzil and (BOON and NISBET), 1902.
Toluene, 5:2-*di*amino-, 2-acetyl derivative, 3-bromo-2- and -4-nitro-, 4-bromo-2:6-*di*nitro-, 3-chloro-2- and -4-nitro-, and 3-iodo-4-nitro- (ELSON, GIBSON, and JOHNSON), 2739.
p-fluoro-, fluorescence spectrum of (RUSSELL and STEWART), 2435; (MONYPENY and RUSSELL), 2436.
Toluenes, bromonitro- (GIBSON and JOHNSON), 1243.
p-**Toluenesulphinic acid**, esters, preparation of (HOUSSA, KENYON, and PHILLIPS), 1707.
p-**Toluenesulphinic acid**, 2-chloro-5-nitro- (DANN and DAVIES), 1052.
Toluenesulphonhydrazides, chloronitro- (DANN and DAVIES), 1053.
p-**Toluenesulphonic acid**, 2:4-*di*chloro-3-aminophenyl ester (GROVES, TURNER, and SHARP), 522.
2:4-*di*chlorophenyl ester and *o*-amino-, 2:4-*di*chloro-5-aminophenyl ester and *o*-nitro-, 2:4-*di*chloro-5-nitrophenyl ester (GROVES, TURNER, and SHARP), 516.
p-**Toluenesulphon-*o'p'*-*di*nitroanilide** (BELL), 2789.
p-**Toluenesulphonnitro-β-naphthalides** (BELL), 2785.
p-**Toluenesulphon*di*nitro-β-naphthalides** (BELL), 2786.
p-**Toluenesulphonyl-β-*NN'*-dimethyl-2-phenylnaphthalene-1:3-diamine**, nitroso- (KENTISH), 1174.
N-**Toluenesulphonylethylenediamine** (MOORE, BOYLE, and THORN), 50.

N-*p*-**Toluenesulphonylpiperazine**, and its additive compounds (MOORE, BOYLE, and THORN), 46.

4-*p*-**Toluenesulphonylpiperazine-1-carboxylic acid**, ethyl ester (MOORE, BOYLE, and THORN), 46.

1-*p*-**Toluenesulphonylpiperidine**, and 1-*o*-nitro- (GROVES, TURNER, and SHARP), 517.

1-*p*-**Toluidino-4-methoxythioxanthone** (ROBERTS and SMILES), 869.

o-**Toluoyldiphenyl**-*o*-**tolylmethane** (HATT), 1632.

9-*p*-**Toluoyl-10-hydroxyhexahydrocarbazole**, 11-nitro- (PLANT and RUTHERFORD), 1973.

9-**Toluoyltetrahydrocarbazoles**, and nitro- (PLANT and RUTHERFORD), 1972.

dl-*N*-*o*-**Tolylalanineamide-5-arsinic acid**, resolution of, and its derivatives (GIBSON and LEVIN), 2759.

dl-*N*-*o*-**Tolylalanine-5-arsinic acid**, and its esters (GIBSON and LEVIN), 2760.

o- and *p*-**Tolylarsenious oxides**, 3-bromo- and 3 chloro- (GIBSON and JOHNSON), 777.

Tolylarsinic acids, 3-bromo-, 3-chloro-, and 3-nitro- (GIBSON and JOHNSON), 776.

N-*o*-**Tolylbenziminophenyl** ether (GIBSON and JOHNSON), 2747.

N-*m*-**Tolylbenziminophenyl** ether (GIBSON and JOHNSON), 1475.

N-**Tolylbenziminotolyl** ethers (GIBSON and JOHNSON), 2747.

o-**Tolyl***di***bromoarsine**, 3-nitro- (GIBSON and JOHNSON), 782.

o- and *p*-**Tolyl***di***chloroarsines**, 3-bromo-, 3-chloro-, and 3-nitro- (GIBSON and JOHNSON), 776.

p-**Tolyldi**-*n*- and -*iso*-**amylphosphines**, and their mercurichlorides (DAVIES, PEARSE, and JONES), 1266.

p-**Tolyldi**-*n*-**butylphosphine** (DAVIES and JONES), 35.

p-**Tolyldi***iso***butylphosphine** (DAVIES, PEARSE, and JONES), 1265.

p-**Tolyldi-(δ-methylamyl)phosphine**, and its derivatives (DAVIES, PEARSE, and JONES), 1267.

p-**Tolyldi-(***dl*-β-**methylbutyl)phosphine**, and its mercurichloride (DAVIES, PEARSE, and JONES), 1266.

p-**Tolyldi**-*n*-**propylphosphine**, and its mercurichloride (DAVIES, PEARSE, and JONES), 1264.

p-**Tolylmethyldi**-*n*- and -*iso*-**amylphosphonium** iodides (DAVIES, PEARSE, and JONES), 1266.

p-**Tolylmethyldi**-*n*-**butylphosphonium** iodide (DAVIES and JONES), 35.

p-**Tolylmethyldi***iso***butylphosphonium** iodide (DAVIES, PEARSE, and JONES), 1265.

p-**Tolylmethyldi-(***dl*-β-**methylbutyl)phosphonium** iodide (DAVIES, PEARSE, and JONES), 1267.

p-**Tolylmethyldi**-*n*-**propylphosphonium** iodide (DAVIES, PEARSE, and JONES), 1264.

p-**Tolylmethylsulphone**, 2-chloro-5-nitro- (DANN and DAVIES), 1053.

p-**Tolylnitroamine**, 3-bromo- (BRADFIELD and ORTON), 918.

m-**Tolyltellurium***tri***chloride**, 4-hydroxy- (MORGAN and BURGESS), 2217.

o-**Tolyltolylamines** (GIBSON and JOHNSON), 2748.

o-**Tolyl**-*p*-**tolylcarbinol** (HATT), 1631.

p-**Tolyltri**-*n*-**propylphosphonium** bromide (DAVIES, PEARSE, and JONES), 1265.

Triacetyl methylrhamnoside, new form of (HAWORTH, HIRST, and MILLER), 2469.

Trialkylpropenylammonium derivatives, prototropy and anionotropy in (INGOLD and ROTHSTEIN), 8.

Tri-*n*- and -*iso*-**amylphosphines**, and their carbon disulphide derivatives (DAVIES, PEARSE, and JONES), 1265.

Tribenzylarsine, *tri*-*p*-nitro-, hydroxynitrate and oxide (CHALLENGER and PETERS), 2619.

1:2:3-Tribenzyloxybenzene, and 5-nitro- (BAKER, NODZU, and ROBINSON), 77.

Tribenzylphosphine oxide, *tri*-*p*-nitro- (CHALLENGER and PETERS), 2614.

Tribenzylstibine *di*hydroxide and *di*chloride (CHALLENGER and PETERS), 2620.

Tri-*n*-**butylphosphine**, and its derivatives (DAVIES and JONES), 34.

Tri*iso***butylphosphine**, and its mercurichloride (DAVIES, PEARSE, and JONES), 1265.

Tricetyl phosphate (PLIMMER and BURCH), 282.

Tricholesteryl phosphate (PLIMMER and BURCH), 283.

Tricosanic acid, heat of crystallisation of (GARNER and KING), 1860.

Triethyl phosphate, *tri*-β-chloro- (PLIMMER and BURCH), 284.

Triethylamine, ββ′β″-*tri*amino-, cobaltic derivatives of (MANN), 409.

Triethyl-γ-**chloroallylammonium** salts (INGOLD and ROTHSTEIN), 12.

Triethylethoxyaldehydomethylammonium picrate (INGOLD and ROTHSTEIN), 14.

Triethyl-α-**ethoxyallylammonium** picrate (INGOLD and ROTHSTEIN), 12.

Triethylhydroxyaldehydomethylammonium picrate (INGOLD and ROTHSTEIN), 14.

Triethyl-α-hydroxyallylammonium salts (INGOLD and ROTHSTEIN), 13.

Triethyl-*n*-propylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2351.

Triglycerides, rate of saponification of, by alkalis (MCBAIN, HUMPHREYS, and KAWAKAMI), 2185.

Trigonelline *tetra*chloroiodide (CHATTAWAY and PARKES), 1316.

ω-3:6-Trimethoxyacetophenone, 2:4-*di*hydroxy- (BAKER, NODZU, and ROBINSON), 79.

3:4:5-Trimethoxyaporphine, attempted synthesis of (CALLOW, GULLAND, and HAWORTH), 1444.

3:4-Trimethoxybenzoic anhydride, preparation of (HEAP and ROBINSON), 69.

2′:4′:6-Trimethoxyflavylium chloride and ferrichloride (CULLINANE and PHILPOTT), 1765.

3:4:5-Trimethoxyphenylacetic acid, amide and nitrile of (BAKER and ROBINSON), 157.

2:4:6-Trimethoxyphenyl 2-hydroxystyryl ketone (CULLINANE and PHILPOTT), 1765.

3:4:5-Trimethoxyphenylpyruvic acid, (BAKER and ROBINSON), 157.

3:4:5-Trimethoxytetraphenylmethane (HARDY), 1005.

2:3:4-Trimethoxythioxanthone, and its salts (ROBERTS and SMILES), 872.

2:3:6-Trimethylanthracene (MORGAN and COULSON), 2551.

2:3:6-Trimethylanthraquinone (MORGAN and COULSON), 2555.

2:3:6-Trimethyl-9-anthrone (MORGAN and COULSON), 2554.

2:4:4′-Trimethylbenzophenone, and its oxime (MORGAN and COULSON), 2209.

2:5:4′-Trimethylbenzophenone (MORGAN and COULSON), 2211.

3:4:3′-Trimethylbenzophenone-6′-carboxylic acid (MORGAN and COULSON), 2558.

4-Trimethyl-2:6-bis*di*chloromethylene-*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene, 4-chloro-ω-4-*tri*chloro- (CHATTAWAY and KELLETT), 2916.

Tri-(*dl*-β-methylbutyl)phosphine (DAVIES, PEARSE, and JONES), 1266.

Trimethyl-γ-chloroallylammonium salts (INGOLD and ROTHSTEIN), 12.

2:2′:8-Trimethyl-5:6:5′:6′-dibenzthiocarbocyanine iodide (HAMER), 2606.

2:3:5-Trimethyl-1:2-dihydrobenzthiazole, 1-imino-, and its derivatives (HUNTER and PRIDE), 945.

Trimethyl-5:10-dihydrophenarsazines, 10-chloro- (GIBSON and JOHNSON), 2753.

Trimethylene *tri*sulphide, mono-, di-, and tri-oxides of (BELL and BENNETT), 17.

Trimethylethoxyaldehydomethylammonium picrate (INGOLD and ROTHSTEIN), 14.

Trimethyl-α-ethoxyallylammonium picrate (INGOLD and ROTHSTEIN), 13.

Trimethylethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2350.

3:5:6-Trimethylglucose, constitution of (ANDERSON, CHARLTON, and HAWORTH), 1329.

Trimethyl glycogen (HAWORTH, HIRST, and WEBB), 2484.

3:7:11-Trimethyl-15-hexadecanone, and its semicarbazone (HEILBRON and THOMPSON), 889.

Trimethylhydroxyaldehydomethylammonium picrate (INGOLD and ROTHSTEIN), 14.

Trimethyl-α-hydroxyallylammonium salts (INGOLD and ROTHSTEIN), 13.

***l*-3:4:6-Trimethyl δ-mannonolactone** (HAWORTH and PEAT), 356.

2:3:4-Trimethyl β-methylrhamnoside (HAWORTH, HIRST, and MILLER), 2476.

2:6:10-Trimethyl-14-pentadecanone (HEILBRON and THOMPSON), 890.

2:4:7-Trimethylphenarsazinic acid hydrochloride (GIBSON and JOHNSON), 2753.

Trimethylphosphonium *tri*chloroacetate, hydroxy- (FENTON and INGOLD), 2349.

***l*-Trimethyl rhamnonic acid**, phenylhydrazide of (AVERY and HIRST), 2467.

2:3:4-Trimethyl rhamnonolactone (AVERY and HIRST), 2466.

Trimethyltelluronium bromide (DREW), 567.

3:7:11-Trimethyltetradecoic acid (HEILBRON and THOMPSON), 891.

Tri-5-methyltriphenyltelluronium salts, *tri*-2-hydroxy- (MORGAN and BURGESS), 2216.

ββδ-Trimethylvalerolactone (QUDRAT-I-KHUDA), 208.

2:3:4-Trimethyl-δ-xylonic acid, phenylhydrazide of (HAWORTH and LONG), 349.

Trimethyl-γ- and -δ-xylonolactones, conversion of, into the corresponding lyxonolactones (HAWORTH and LONG), 345.

Triphenoxychlorosilicane (THOMPSON and KIPPING), 1177.
Triphenylbenzylphosphonium bromide (FENTON and INGOLD), 2353.
Triphenylmethoxyphosphorus *di*chloride, conversion of, into triphenylmethylphosphinic acid (HATT), 2412.
Triphenylmethylchlorophosphinic acid, and its salts and ethyl ester (HATT), 2418.
4-Triphenylmethyl-1-naphthol (HARDY), 1006.
1-Triphenylmethyl-2-naphthol (HARDY), 1006.
Triphenylmethylphosphinic acid, formation of, from triphenylmethoxyphosphorus dichloride, and its derivatives (HATT), 2412.
Triphenylsilicane (KIPPING and MURRAY), 364.
Tri-*n*-propyl-*n*-butylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2351.
Tri-*n*-propyl-*n*-octylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2352.
Tri-*n*-propylphosphine, and its derivatives (DAVIES, PEARSE, and JONES), 1264.
2:4:6-Tris*di*chloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2914.
2:4:6-Tris*di*chloromethylene-1:3:5-trithian (CHATTAWAY and KELLETT), 2914.
2:4:6-Tris*tri*chloromethyl*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene, 4-chloro- and 2:4:6-*tri*chloro- (CHATTAWAY and KELLETT), 2915.
2:4:6-Tris*tri*chloromethyl-1:3:5-trithian, 2:4:6-*tri*chloro- (CHATTAWAY and KELLETT), 2915.
Trithioacetaldehydes, isomeric (BELL, BENNETT, and MANN), 1462.
Tri-*p*-tolylsilicol (STEELE and KIPPING), 357.
Tri-*p*-tolylsilicyl chloride and oxide (STEELE and KIPPING), 357.
Trypanocidal activity and chemical constitution (EVERETT), 670.
"Tryparsamide," compounds of the type of (GIBSON, JOHNSON, and LEVIN), 479; (GIBSON and LEVIN), 2759.
Tungsten, electro-deposition of, at a mercury cathode (JACKSON, RUSSELL, and MERRILL), 2394.
oxidation of (DUNN), 1149.
Tungstic oxide, complexity of (DUNN), 1149.
Turpentine, Indian, from *Pinus longifolia* (GIBSON and SIMONSEN), 305.

U.

Unsaturated compounds, catalytic hydrogenation of (LEBEDEV and YAKUBCHIK), 220.
conjugated, modes of addition to (BURTON and INGOLD), 2022.

V.

Valency (LOWRY and GILBERT), 2076, 2867.
Vapours, saturated, effect of a gas on pressure of (SAYCE and BRISCOE), 1302.
Vapour pressure, determination of (SMITS and SWART), 2724.
Vapour tension. See Vapour pressure.
Velocity of reaction, influence of the polarity of solvents on (KERR), 239.
effect of cohesion of the medium on (RICHARDSON and SOPER), 1873.
Veratraldehyde benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1942.
Veratric acid, 2-amino- (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2933.
Veratrole, 3:5-*di*amino- (BAKER and ROBINSON), 156.
β-Veratrylethylamine, preparation of (CHILD and PYMAN), 2013.
***N*-β-Veratrylethylsuccinimide** (CHILD and PYMAN), 2015.
Vinylacrylic acid, preparation of, and its reduction (BURTON and INGOLD), 2028.
Vinyldiacetoneamine, action of aromatic acid chlorides on (GRAYMORE), 587.
Volume, molecular, at absolute zero (SUGDEN), 1055.

W.

Walden inversion (RÖRDAM), 1282.
Waxes, rate of saponification of, by alkalis (MCBAIN, HUMPHREYS, and KAWAKAMI), 2185.

X.

Xantha-8-naphtha*spiro*pyran (IRVING), 1094.
Xanthone, 1:7-*di*hydroxy-, 7-acetyl derivative, and its derivatives (ROBERTSON and WATERS), 2242.
thio-. See Thioxanthone.
Xylan, constitution of (HAMPTON, HAWORTH, and HIRST), 1739.
***m*-Xyleneazo-3:6-disulpho-β-naphthyl** sodium sulphite (KING), 608.

s-m-**Xylylmethylthiocarbamide** (HUNTER and PRIDE), 945.

Z.

Zinc alcoholate (GIBSON, DRISCOLL, and JONES), 1443.

Zinc chloride, additive compounds of, with hexamethylenetetramine (DUFF and BILLS), 417.

chromate (BRIGGS), 242.

Zirconium chromate (BRIGGS), 242.

Zymosterol, isolation of (HEILBRON and SEXTON), 2255.

FORMULA INDEX.

THE following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group-substances.

C_1 Group.

CH_4 Methane, decomposition of (JONES), 419; thermal decomposition of (HOLLIDAY and EXELL), 1066.

CO Carbon monoxide, infra-red emission spectra of, in nitrous oxide (BAILEY and LIH), 54; effect of addition of hydrogen and water to radiation emitted by (GARNER and ROFFEY), 1123; decomposition of, in the electric discharge (LUNT and MUMFORD), 1711; (OTT), 2422.

CBr_4 Carbon tetrabromide, interaction of, with selenium and sulphur (BRISCOE, PEEL, and ROWLANDS), 1766.

1 II

CHN Hydrocyanic acid, potassium salt, action of, on chloroaldehydes (CHATTAWAY and IRVING), 1038.

CH_4O Methyl alcohol, compounds of, with metallic salts (GIBSON, DRISCOLL, and JONES), 1443.

CSSe Carbon sulphidoselenide (BRISCOE, PEEL, and ROBINSON), 56; reactions of halogens with (BRISCOE, PEEL, and ROBINSON), 1048.

1 III

CHNS Thiocyanic acid, metallic salts, complex salts of, with triaminopropane (MANN), 656; sodium salt, solubility of (HUGHES and MEAD), 2282.

CH_3Br_2Te Methyltelluronium tribromide (DREW), 567.

CH_3I_3Te Methyltelluronium tri-iodide (DREW), 566.

CH_4ON_2 Carbamide, equilibrium of ammonium nitrate and (HOWELLS), 910.

1 IV

CH_6ON_2Cl Semicarbazide hydrochloride, action of, on aldoximes and their derivatives (BRADY and PEAKIN), 478.

C_2 Group.

C_2H_2 Acetylene, thermal decomposition and polymerisation of (HAGUE and WHEELER), 391.

C_2H_4 Ethylene, thermal decomposition and polymerisation of (HAGUE and WHEELER), 390.

2 II

$C_2H_2O_4$ Oxalic acid, catalysis in dissociation of (Dawson, Hoskins, and Smith), 1884; cobalt oxy-salts (Percival and Wardlaw), 2628; complex molybdenum salts (Spittle and Wardlaw), 792; complex sodium copper salt (Riley), 1309.

C_2H_4O Acetaldehyde, emission of light from phosphorescent flames of (Emeléus), 1733.

$C_2H_4O_2$ Acetic acid, and its lead salt, equilibrium of lead chloride, water, and (Sandved), 337.

C_2H_6O Ethyl alcohol, photochemical oxidation of, by potassium dichromate (Bowen and Yarnold), 1648.

C_2H_7N Dimethylamine, action of nitrous acid on (Taylor and Price), 2052.

$C_2H_8O_4$ *l*-Threose, formation of (Deulofeu), 2458.

2 III

$C_2H_2Cl_4S$ Trichloroethyl sulphur chloride (Phillips, Davies, and Mumford), 548.

C_2H_3OBr Acetyl bromide, reaction of ethyl ether, naphthol, and (Bassett and Taylor), 1568.

$C_2H_3O_3Cl$ Chloroacetic acid as catalyst in hydrolysis of ethyl acetate (Dawson and Lowson), 393.

$C_2H_5O_2N$ Glycine, synthesis of (Anslow and King), 2463.

$C_2H_5O_3P$ Ethyl metaphosphate, action of, on alcohols, ammonia, and amino-compounds (Plimmer and Burch), 292.

$C_2H_5TeI_3$ Ethyltelluronium tri-iodide (Lowry and Gilbert), 2089.

$C_2H_6O_3Te_2$ Methyl hydroxytellurium oxide anhydride (Drew), 566.

$C_2H_7O_5P$ β-Hydroxyethyl dihydrogen phosphate, enzymic synthesis of (Kay), 524.

$C_2H_8O_2Te$ α-Dimethyltelluronium hydroxide, salts of (Lowry and Gilbert), 2082.

2 IV

C_2H_3ONS Thiolacetamide as reagent for arsinic acids (Barber), 1024.

$C_2H_5O_4PBa$ Barium ethyl phosphate (Plimmer and Burch), 294.

$C_2H_5O_5PNa_2$ Disodium β-hydroxyethyl phosphate (Plimmer and Burch), 286.

$C_2H_{13}O_4N_2P$ Diammonium ethyl phosphate (Plimmer and Burch), 297.

2 V

$C_2H_4O_4ClPBa$ Barium chloroethyl phosphate (Plimmer and Burch), 285.

C_3 Group.

3 II

C_3O_2 Malonic anhydride, production of (Lunt and Mumford), 1720.

$C_3H_4O_3$ Pyruvic acid, action of bromine on (Hughes and Watson), 1946.

$C_3H_4O_4$ Malonic acid, metallic salts, electrolytic dissociation of (Riley and Fisher), 2006; potassium cobalt oxy-salt (Percival and Wardlaw), 2631; complex sodium copper salt (Riley), 1310.

C_3H_6O Acetone, equilibrium of *n*-butyl alcohol, water, and (Jones), 799; condensation of fluorene with (Maitland and Tucker), 2559.

Propaldehyde, emission of light from phosphorescent flames of (Emeléus), 1733.

$C_3H_6O_3$ *dl*-Glyceraldehyde, methylation of (Reeves), 1327.

C_3H_8O Methyl ethyl ether, decomposition of (Glass and Hinshelwood), 1806.

C_3H_9N *n*-Propylamine, action of nitrous acid on (Taylor and Price), 2052.

$C_3H_{11}N_3$ αβγ-Triaminopropane, complex salts of, with metallic halides (Mann), 656.

3 III

$C_3H_4ON_2$ Cyanoacetamide, condensation of β-diketones with (BARDHAN), 2226.
$C_3H_6OS_2$ Trimethylene trisulphide oxide (BELL and BENNETT), 17.
$C_3H_6O_2S_2$ Trimethylene trisulphide dioxides (BELL and BENNETT), 18.
$C_3H_6O_3S_2$ Trimethylene trisulphoxides (BELL and BENNETT), 19.
$C_3H_8O_2S$ Propanesulphinic acids, silver salts (FENTON and INGOLD), 2341.
C_3H_9BrTe Trimethyltelluronium bromide (DREW), 567.

3 IV

$C_3H_7O_4PBa$ Barium propyl phosphate (PLIMMER and BURCH), 295.

C_4 Group.

$C_4H_4O_4$ Fumaric acid, adsorption of, by charcoal (PHELPS), 1724.
Maleic acid, adsorption of, by charcoal (PHELPS), 1724.
$C_4H_6O_3$ Acetic anhydride, interaction of bromine with (WATSON and GREGORY), 1373.
$C_4H_6O_5$ *l*-Malic acid, formation of, from fumaric acid (CHALLENGER and KLEIN), 1644.
$C_4H_6O_6$ Tartaric acid, methylamine salts (READ, STEELE, and CARTER), 27; structure and rotation of compounds of boric acid with (BURGESS and HUNTER), 2838.
$C_4H_6O_8$ Dihydroxytartaric acid, action of *o*-phenylenediamines on (CHATTAWAY and HUMPHREY), 645.
$C_4H_8O_2$ Butyric acid, density of mixtures of water and (GRINDLEY and BURY), 679.
Ethyl acetate, catalytic hydrolysis of (DAWSON and LOWSON), 393.
$C_4H_8O_4$ Erythrose, oxidation of (DEULOFEU and SELVA), 227.
$C_4H_9N_4$ 5-Amino-3-ethyl-1:2:4-triazole, and its nitrate (REILLY and MADDEN), 816.
C_4H_8Se *cyclo*Selenobutane (MORGAN and BURSTALL), 1099.
$C_4H_8Se_2$ *cyclo*Tetramethylene diselenide (MORGAN and BURSTALL), 1102.
$C_4H_{10}O$ *n*-Butyl alcohol, equilibria of, with water and with acetone and water (JONES), 799.
Ethyl ether, emission of light from phosphorescent flames of (EMELÉUS), 1733; viscosity of, at low temperatures (VAN AUBEL), 1111; effect of carbon dioxide on vapour pressure of (SAYCE and BRISCOE), 1303; effect of, on esterification by hydrochloric acid (MITCHELL and PARTINGTON), 1562; autoxidation of (KING), 738; reaction of acetyl bromide, naphthol, and (BASSETT and TAYLOR), 1568.
Methyl propyl ether, decomposition of (GLASS and HINSHELWOOD), 1809.

4 III

$C_4H_2I_2Se$ Di-iodoselenophen (BRISCOE, PEEL, and YOUNG), 2592.
$C_4H_3Cl_5S$ αβ-Dichloroethyl αββ-trichlorovinyl sulphide (PHILLIPS, DAVIES, and MUMFORD), 546.
αββ-Trichloroethyl αβ-dichlorovinyl sulphide (PHILLIPS, DAVIES, and MUMFORD), 546.
$C_4H_3Cl_7S$ Heptachlorodiethyl sulphides (PHILLIPS, DAVIES, and MUMFORD), 546.
$C_4H_4O_3Cl_2$ Acetic chloroacetic anhydride (WATSON and GREGORY), 1373.
$C_4H_4Cl_4S$ αβ-Dichloroethyl αβ-dichlorovinyl sulphide (PHILLIPS, DAVIES, and MUMFORD), 545.
ααβ-Trichloroethyl β-chlorovinyl sulphide (PHILLIPS, DAVIES, and MUMFORD), 544.
$C_4H_5Cl_9S$ Hexachlorodiethyl sulphides (PHILLIPS, DAVIES, and MUMFORD), 545.
$C_4H_6N_2Te$ α-Dimethyltelluronium dicyanide (LOWRY and GILBERT), 2082.

$C_4H_7ON_3$ Creatinine, red picrate of (ANSLOW and KING), 1210.
$C_4H_8OCl_2$ Dichloromethoxypropanes (FAIRBOURNE), 2234.
$C_4H_8Cl_2S$ $\beta\beta'$-Dichlorodiethyl sulphide, chlorination of (PHILLIPS, DAVIES, and MUMFORD), 535.
$C_4H_8Cl_2Se$ *cyclo*Selenibutane 1:1-dichloride (MORGAN and BURSTALL), 1100.
$C_4H_8Br_2Se$ *cyclo*Selenibutane 1:1-dibromide (MORGAN and BURSTALL), 1100.
$C_4H_8Br_7Se$ *cyclo*Selenibutane perbromide (MORGAN and BURSTALL), 1100.
$C_4H_8I_2Se$ *cyclo*Selenibutane 1:1-di-iodide (MORGAN and BURSTALL), 1100.
$C_4H_9O_2N$ Ethyl glycine, action of nitrous acid on (TAYLOR and PRICE), 2052.
$C_4H_{10}O_2N_2$ β-Aminoethylglycine, and its hydrochloride (MOORE, BOYLE, and THORN), 51.
$C_4H_{13}OP$ Tetramethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2349.

4 IV

$C_4H_2Cl_2SeHg_2$ Dichloromercuriselenophen (BRISCOE, PEEL, and YOUNG), 2592.
$C_4H_4O_2SeHg_2$ Dihydroxymercuriselenophen (BRISCOE, PEEL, and YOUNG), 2592.
$C_4H_4O_6S_2Hg_2$ Dihydroxymercurithiophen mercurisulphate (BRISCOE, PEEL, and YOUNG), 2591.
$C_4H_5N_3Cl_2Au$ 5-Diazo-3-ethyl-1:2:4-triazole chloroaurate (REILLY and MADDEN), 816.
C_4H_9OBrSe *cyclo*Selenibutane 1-hydroxy-1-bromide (MORGAN and BURSTALL), 1100.
$C_4H_{12}O_{10}N_2Se_2$ $\alpha\delta$-Tetramethylenediseleninic acid dinitrate (MORGAN and BURSTALL), 1102.
$C_4H_{14}O_4NP$ Diethyl ammonium phosphate (PLIMMER and BURCH), 297.

4 V

$C_4H_4O_6SSeHg_2$ Dihydroxymercuriselenophen mercurisulphate (BRISCOE, PEEL, and YOUNG), 2592.

C_5 Group.

C_5H_{10} Amylene, pressure-temperature curves of mixtures of oxygen with (LEWIS), 759.
C_5H_{12} Pentane, effect of carbon dioxide on vapour pressure of (SAYCE and BRISCOE), 1303.

5 II

$C_5H_6Br_2$ 1:2-Dibromo-Δ^3-*cyclo*pentene (FARMER and SCOTT), 177.
$C_5H_8O_3$ Lævulic acid, action of bromine on (HUGHES and WATSON), 1950.
$C_5H_8O_4$ Glutaric acid, catalytic and thermal decomposition of (VOGEL), 726.
$C_5H_{10}O_5$ *l*-Arabinose, degradation of (DEULOFEU and SELVA), 225.
$C_5H_{10}Se$ *cyclo*Selenopentane (MORGAN and BURSTALL), 2199.
$C_5H_{10}Se_2$ *cyclo*Pentamethylene diselenide (MORGAN and BURSTALL), 2202.
$C_5H_{11}N$ Piperidine, action of, on diaryl ethers (GROVES, TURNER, and SHARP), 512.

5 III

$C_5H_6O_2Cl_2$ Allyl dichloroacetate (CHATTAWAY and IRVING), 1042.
C_5H_8OS Penthian-4-one (BENNETT and WADDINGTON), 2829.
$C_5H_8O_2Cl_2$ *n*-Propyl dichloroacetate (CHATTAWAY and IRVING), 1042.
$C_5H_8O_3S$ Sulphone, from penthianone (BENNETT and WADDINGTON), 2830.
$C_5H_{10}Cl_2Se$ *cyclo*Selenipentane 1:1-dichloride (MORGAN and BURSTALL), 2200.
$C_5H_{10}Br_2Se$ *cyclo*Selenipentane 1:1-dibromide (MORGAN and BURSTALL), 2200.
$C_5H_{10}Br_7Se$ *cyclo*Selenipentane perbromide (MORGAN and BURSTALL), 2200.
$C_5H_{10}I_2Se$ *cyclo*Selenipentane 1:1-di-iodide (MORGAN and BURSTALL), 2200.

$C_5H_{11}O_2N$ Trimethylhydroxyaldehydomethylamine, picrate of (INGOLD and ROTHSTEIN), 14.

$C_5H_{11}ISe$ *cyclo*Selenibutane 1-methiodide (MORGAN and BURSTALL), 1101.

$C_5H_{12}O_2N_2$ Carbethoxyethylenediamine (MOORE, BOYLE, and THORN), 50.

$C_5H_{12}O_2S$ Ethyl-*n*-propylsulphone (FENTON and INGOLD), 2340.

*iso*Pentanesulphinic acid, silver salt (FENTON and INGOLD), 2341.

$C_5H_{13}OP$ Trimethylethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2350.

5 IV

$C_5H_6ONCl_3$ Butyl chloral cyanohydrin (CHATTAWAY and IRVING), 1044.

$C_5H_{10}O_2Cl_3P$ Hydroxytrimethylphosphonium trichloroacetate (FENTON and INGOLD), 2349.

$C_5H_{10}Cl_2SeAg$ *cyclo*Selenopentane mercurichloride (MORGAN and BURSTALL), 2200.

$C_5H_{10}Cl_6SePt$ *cyclo*Selenipentane chloroplatinate (MORGAN and BURSTALL), 2201.

$C_5H_{11}OClSe$ *cyclo*Selenipentane hydroxychloride (MORGAN and BURSTALL), 2201.

5 V

$C_5H_6ONBr_4Mo$ Pyridinium molybdenyl tetrabromide (ANGELL, JAMES, and WARDLAW), 2583.

C_6 Group.

C_6H_6 Benzene, effect of drying on physical properties of (BRISCOE, PEEL, and ROBINSON), 368; effect of an electric field on boiling point of (SMITH), 788.

Hexane, emission of light from phosphorescent flames of (EMELÉUS), 1733; effect of drying on (SMITS, SWART, and BRUIN), 2712.

6 II

C_6H_5F Fluorobenzene, fluorescence spectrum of (RUSSELL and STEWART), 2434; (MONYPENY and RUSSELL), 2436.

$C_6H_6O_4$ Kojic acid, production of, from pentoses (CHALLENGER, KLEIN, and WALKER), 1498.

$C_6Cl_6S_3$ 2:4:6-Trisdichloromethylene-1:3:5-trithian (CHATTAWAY and KELLETT), 2914.

$C_6H_8Br_2$ 1:2-Dibromo-Δ^3-*cyclo*hexene (FARMER and SCOTT), 175.

C_6H_9N β-Methyl-$\Delta\beta$-pentenonitrile (KANDIAH and LINSTEAD), 2151.

$C_6H_{10}O_2$ *n*-Hexenoic acids (ECCOTT and LINSTEAD), 2153.

$C_6H_{10}O_4$ Adipic acid, catalytic and thermal decomposition of (VOGEL), 727.

$C_6H_{10}O_5$ Glycogen, properties of (HAWORTH, HIRST, and WEBB), 2479.

$C_6H_{11}N_5$ Penta-aminobenzene (FLÜRSCHEIM and HOLMES), 336.

$C_6H_{12}O_2$ Diacetone alcohol, action of magnesium 9-fluorenyl bromide on (MAITLAND and TUCKER), 2559.

$C_6H_{12}O_6$ Fructose, compound of, with lime (MACKENZIE and QUIN), 961.

Galactose, modifications of (RIIBER, MINSAAS, and LYCHE), 2173.

Glucose, compound of, with lime (MACKENZIE and QUIN), 960.

$C_6H_{12}N_4$ 5-Amino-3-*iso*butyl-1:2:4-triazole, and its nitrate (REILLY and MADDEN), 816.

Hexamethylenetetramine, compounds of metallic chlorides with (DUFF and BILLS), 411.

$C_6H_{12}N_6$ Hexa-aminobenzene, and its salts (FLÜRSCHEIM and HOLMES), 330.

$C_6H_{12}S_3$ Trithioacetaldehydes, isomeric (BELL, BENNETT, and MANN), 1462.

$C_6Cl_{12}S_3$ 2:4:6-Trichloro-2:4:6-tristrichloromethyl-1:3:5-trithian (CHATTAWAY and KELLETT), 2915.

$C_6H_{14}O$ Di*iso*propyl ether, decomposition of (GLASS and HINSHELWOOD), 1810, 1815.
$C_6H_{14}O_6$ Mannitol, rotation dispersion of (PATTERSON and TODD), 2876.
$C_6H_{14}N_2$ *N*-Ethylpiperazine, and its salts (MOORE, BOYLE, and THORN), 47.
$C_6H_{15}N_4$ $\beta\beta'\beta''$-Triaminotriethylamine, complex cobalt salts (MANN), 409.

6 III

$C_6H_3OCl_3$ 2:3:4-Trichlorophenol (GROVES, TURNER, and SHARP), 522.
$C_6H_3O_7N_3$ Picric acid, pyridinocupric salts (KING), 2596.
$C_6H_2O_{12}Fe$ Ferrioxalic acid, potassium salt, photolysis of solutions of (ALLMAND and WEBB), 1518.
$C_6H_3Cl_3S_3$ Trithioparachloral (CHATTAWAY and KELLETT), 2914.
$C_6H_4NCl_3$ 2:3:5-Trichloroaniline (HODGSON and KERSHAW), 2921.
$C_6H_4N_6Fe$ Hydroferrocyanic acid, sodium salt, solubility of, in water (FRIEND, TOWNLEY, and VALLANCE), 2326.
C_6H_5OF *m*-Fluorophenol, Reimer-Tiemann reaction with (HODGSON and NIXON), 1632.
$C_6H_5O_3N$ Nitrophenols, solubilities of, in methyl alcohol solutions (DUFF), 2789.
$C_6H_5Cl_2As$ Phenyldichloroarsine, parachor of (HENLEY and SUGDEN), 1062.
$C_6H_5Cl_3Si$ Phenylsilicon trichloride (KIPPING, MURRAY, and MALTBY), 1184.
C_6H_5BrMg Magnesium phenyl bromide, reaction between phenyl glycide and (BOYD and VINEALL), 1622.
C_6H_5BrSe Phenyl selenium bromide, parachor of (HENLEY and SUGDEN), 1063.
$C_6H_6O_2Se$ Phenylseleninic acid, parachor of (HENLEY and SUGDEN), 1064.
$C_6H_7O_2N$ *cyclo*Butane-1:2-dicarboxylimide (MENON and SIMONSEN), 304.
$C_6H_8N_2Se_2$ Tetramethylene selenocyanate (MORGAN and BURSTALL), 1101.
$C_6H_8Cl_4S_2$ β-(β-Chloroethyl-thiol)ethyl trichlorovinyl sulphide (PHILLIPS, DAVIES, and MUMFORD), 544.
C_6H_9ON 2-Aminomethyl*cyclo*butane-1-carboxyl-lactam (MENON and SIMONSEN), 305.
$C_6H_{10}O_2Br_2$ 1:2-Dibromo-3:4-dihydroxy*cyclo*hexane (FARMER and SCOTT), 176.
$C_6H_{10}O_3S$ Penthianolcarboxylic acid (BENNETT and WADDINGTON), 2831.
$C_6H_{10}O_4S$ Penthian-4-ol-4-carboxylic acid oxides (BENNETT and WADDINGTON), 2836.
$C_6H_{10}O_5S$ Sulphone, from penthianolcarboxylic acid (BENNETT and WADDINGTON), 2831.
$C_6H_{11}O_2Cl$ δ-Chlorobutyl acetate (BENNETT and HEATHCOAT), 272.
$C_6H_{12}O_2N_2$ Piperazinoacetic acid, and its hydrochloride (MOORE, BOYLE, and THORN), 48.
$C_6H_{12}NCl$ Trimethyl-γ-chloroallylamine, picrate of (INGOLD and ROTHSTEIN), 12.
$C_6H_{13}ClS$ ϵ-Chloroamyl methyl sulphide (BENNETT, HEATHCOAT, and MOSSES), 2571.
δ-Chlorobutyl ethyl sulphide (BENNETT, HEATHCOAT, and MOSSES), 2570.
γ-Chlorodipropyl sulphide (BENNETT, HEATHCOAT, and MOSSES), 2571.
$C_6H_{13}NCl_2$ Trimethyl-γ-chloroallylammonium chloride (INGOLD and ROTHSTEIN), 12.
$C_6H_{13}ISe$ *cyclo*Selenipentane 1-methiodide (MORGAN and BURSTALL), 2201.
$C_6H_{14}ON_2$ *N*-β-Hydroxyethylpiperazine, and its salts (MOORE, BOYLE, and THORN), 47.
$C_6H_{14}OS$ Ethyl δ-hydroxybutyl sulphide (BENNETT and HEATHCOAT), 272.
γ-Hydroxydipropyl sulphide (BENNETT and HEATHCOAT), 271.
Methyl ϵ-hydroxyamyl sulphide (BENNETT and HEATHCOAT), 274.

$C_6H_{14}OS$ Pentamethylenemethylsulphonium hydroxide, salts of (BENNETT, HEATHCOAT, and MOSSES), 2571.

Tetramethylene-ethylsulphonium hydroxide, salts of (BENNETT, HEATHCOAT, and MOSSES), 2571.

$C_6OCl_6S_2$ 2:4:6-Trisdichloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2914.

$C_6OCl_8S_2$ 4-Chloro-4-trichloromethyl-2:6-bisdichloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2916.

$C_6OCl_{12}S_2$ 2:4:6-Trichloro-2:4:6-tristrichloromethyl*cyclo*-1:3:5-oxadithia-2:4:6-trimethylenes (CHATTAWAY and KELLETT), 2915.

6 IV

$C_6H_2OCl_8S_2$ 2:6-Bistrichloromethyl-4-dichloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylenes (CHATTAWAY and KELLETT), 2914.

$C_6H_2OCl_{10}S_2$ 4-Chloro-2:4:6-tristrichloromethyl*cyclo*-1:3:5-oxadithia-2:4:6-trimethylenes (CHATTAWAY and KELLETT), 2915.

$C_6H_2O_2NCl_3$ 2:3:5-Trichloronitrobenzene (HODGSON and KERSHAW), 2920.

$C_6H_2O_3NBr_3$ 3:4:6-Tribromo-2-nitrophenol (HODGSON and NIXON), 2424.

$C_6H_2O_4N_2Cl$ *m*-Dichlorodinitrobenzenes (DANN), 2460.

$C_6H_3OCl_3S_2$ Dithioparachlorals (CHATTAWAY and KELLETT), 2914.

$C_6H_3O_2N_2Cl_3$ 2:3:6-Trichloro-4-nitroaniline (HODGSON and KERSHAW), 2920.

$C_6H_3O_3NCl_2$ Dichloronitrophenols (GROVES, TURNER, and SHARP), 517; (HODGSON and KERSHAW), 2922.

$C_6H_3O_4I_2S$ 3:5-Di-iodo-4-hydroxybenzenesulphonic acid, lead salt (DICKINSON), 358.

C_6H_4OBrF 3-Fluoro-2-bromophenol (HODGSON and NIXON), 1637.

$C_6H_4O_2N_2Br_2$ 2:4-Dibromophenylnitroamine (BRADFIELD and ORTON), 918.

$C_6H_5OCl_3Si$ Phenoxytrichlorosilicane (THOMPSON and KIPPING), 1177.

$C_6H_5O_2N_2Br$ *p*-Nitrophenylbromoacetonitrile (BAKER and INGOLD), 446.

$C_6H_5O_4PBa$ Barium phenyl phosphate (PLIMMER and BURCH), 296.

$C_6H_6O_3BrAs$ 3-Bromophenylarsinic acid (BARBER), 2337.

$C_6H_6O_3IAs$ Iodophenylarsinic acids (BARBER), 2336.

$C_6H_6O_4BrAs$ 3-Bromo-4-hydroxyphenylarsinic acid (HAYTHORNTHWAITE), 1013.

$C_6H_7O_4NS$ Hydrogen *p*-aminophenyl sulphate (BURKHARDT and WOOD), 146.

$C_6H_7O_4N_3S$ *o*-Nitrobenzenesulphonhydrazide (DANN and DAVIES), 1054.

$C_6H_7O_4N_4Cl$ 2:4-Dinitrophenylhydrazine hydrochloride, action of, on aldoximes and their derivatives (BRADY and PEAKIN), 478.

$C_6H_7O_5N_2As$ 4-Nitro-3-aminophenylarsinic acid (PHILLIPS), 2827.

C_6H_9ONS Penthianone cyanohydrin (BENNETT and WADDINGTON), 2831.

$C_6H_{12}O_4Cl_3P$ Tri-β-chloroethyl phosphate (PLIMMER and BURCH), 284.

$C_6H_{14}O_7P_2Ba$ Barium dipropyl pyrophosphate (PLIMMER and BURCH), 295.

6 V

$C_6H_4O_6NSK$ Potassium nitrophenyl sulphates (BURKHARDT and WOOD), 144.

$C_6H_5O_5NBrAs$ Bromonitrophenylarsinic acids (BARBER), 2335.

$C_6H_5O_5NIAs$ Iodonitrophenylarsinic acids (BARBER), 2336.

$C_6H_6O_2NCl_4I$ Nicotinic acid tetrachloroiodide (CHATTAWAY and PARKES), 1315.

$C_6H_6O_4NSK$ Potassium aminophenyl sulphates (BURKHARDT and WOOD), 146.

$C_6H_7O_3NBrAs$ 2-Bromo-4-aminophenylarsinic acid (HAYTHORNTHWAITE), 1013.

C_7 Group.

$C_7H_4S_3$ 2:3-Dithiosulphindene (MCCLELLAND, WARREN, and JACKSON), 1585.

$C_7H_5O_2$ *o*-Bromobenzoic acid, replacement of halogen in (HURTLEY), 1870.

$C_7H_6O_2$ Salicylaldehyde, preparation of (COPISAROW), 588.
$C_7H_7O_2$ Benzoic acid, dipyridinocupric salt (KING), 2596.
C_7H_7F *p*-Fluorotoluene, fluorescence spectrum of (RUSSELL and STEWART), 2435; (MONYPENY and RUSSELL), 2436.
$C_8H_8O_2$ *o*-Anisaldehyde, preparation of (COPISAROW), 589.
Dimethylpyrone, effect of, on esterification by hydrochloric acid (MITCHELL and PARTINGTON), 1562.
Resorcinol methyl ether, nitrosation and nitration of (HODGSON and CLAY), 2777.
C_7H_9N Benzylamine, picrate of (INGOLD and SHOPPEE), 1203.
*cyclo*Pentylideneacetonitrile (KANDIAH and LINSTEAD), 2151.
$C_7H_{10}O_4$ Δ^{β}-Butenylmalonic acid (ECCOTT and LINSTEAD), 2163.
$C_7H_{10}O_7$ Glucofuranose 5:6-carbonate (HAWORTH and PORTER), 2805.
$C_7H_{12}O$ Methyl β-methylbutenyl ketones (QUDRAT-I-KHUDA), 1915.
$C_7H_{12}O_2$ β-Methyl-Δ^{γ}-hexenoic acid (BURTON and INGOLD), 2031.
$C_7H_{12}O_4$ Dimethyl xylan (HAMPTON, HAWORTH, and HIRST), 1746.
Pimelic acid, catalytic and thermal decomposition of (VOGEL), 728.
$C_7H_{12}O_5$ 2:3-Dimethyl γ-xylonolactone (HAMPTON, HAWORTH, and HIRST), 1748.
$C_7H_{14}O_6$ Methylglucosides, preparation of (PATTERSON and ROBERTSON), 300.

7 III

$C_7H_5OCl_3$ Trichloroanisoles (HODGSON and KERSHAW), 2919.
$C_7H_5O_2F$ Fluorohydroxybenzaldehydes (HODGSON and NIXON), 1635.
$C_7H_5O_3F$ 4-Fluoro-2-hydroxybenzoic acid (HODGSON and NIXON), 1639.
$C_7H_6O_5N_2$ 2:4-Dinitrobenzaldehyde, use of, as a reagent (BENNETT and PRATT), 1465.
$C_7H_6O_5N_4$ 3:6-Dinitrophenylmethylnitrosoamine (MACMILLAN and READE), 2866.
$C_7H_6Cl_3As$ 3-Chlorotolyldichloroarsines (GIBSON and JOHNSON), 776.
$C_7H_7O_3N$ 6-Methyl-2-pyridone-4-carboxylic acid (BARDHAN), 2227.
$C_7H_7O_4N_3$ 3:6-Dinitromonomethylaniline (MACMILLAN and READE), 2867.
$C_7H_7O_5As$ 3:4-Methylenedioxyphenylarsinic acid (BALABAN), 1088.
$C_7H_8O_2N_2$ *p*-Benzoquinonedioxime 4-methyl ether (HODGSON and KERSHAW), 1557.
$C_7H_9O_2N$ Caronimide (MENON and SIMONSEN), 304.
*cyclo*Pentane-1:2-dicarboxylimide (MENON and SIMONSEN), 304.
$C_7H_{10}N_2Se_2$ $\alpha\varepsilon$-Pentamethylene diselenocyanate (MORGAN and BURSTALL), 2202.
$C_7H_{11}ON$ 2-Aminomethyl*cyclo*pentane-1-carboxyl-lactam (MENON and SIMONSEN), 305.
β-Methylsorbamide (BURTON and INGOLD), 2029.
$C_7H_{13}ON$ 4:4-Dimethyl-2-piperidone (MENON and SIMONSEN), 304.
$C_7H_{13}O_2Cl$ ϵ-Chloroamyl acetate (BENNETT and HEATHCOAT), 274.
$C_7H_{14}O_2N_2$ Ethyl piperazine-1-carboxylate (MOORE, BOYLE, and THORN), 45.
$C_7H_{14}O_2N_2$ Piperazino-β-propionic acid, and its dihydrochloride (MOORE, BOYLE, and THORN), 49.
$C_7H_{14}NCl$ Diethyl-γ-chloroallylamine, and its picrate (INGOLD and ROTHSTEIN), 11.
$C_7H_{14}Br_2Se$ 1-β-Bromoethyl*cyclo*selenipentane 1-bromide (MORGAN and BURSTALL), 2202.
$C_7H_{15}O_2N$ Trimethylethoxyaldehydomethylamine, picrate of (INGOLD and ROTHSTEIN), 14.
$C_7H_{17}O_3P$ ω-Carbethoxytetramethylphosphonium hydroxide, and its picrate (FENTON and INGOLD), 2356.
$C_7H_{19}OP$ Methyltriethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2350.

7 IV

$C_7H_3O_6N_2F$ Fluorodinitrohydroxybenzaldehydes (Hodgson and Nixon), 1636.

$C_7H_4O_2BrF$ Fluorobromohydroxybenzaldehydes (Hodgson and Nixon), 1637.

$C_7H_4O_4NF$ Fluoronitrohydroxybenzaldehydes (Hodgson and Nixon), 1635.

C_7H_4NClSe *p*-Chlorophenyl selenocyanate, parachor of (Henley and Sugden), 1063.

C_7H_4NBrSe *p*-Bromophenyl selenocyanate, parachor of (Henley and Sugden), 1064.

$C_7H_5O_3NCl_2$ 3:6-Dichloro-2-nitroanisole, and its hydrochloride (Hodgson and Kershaw), 2923.

$C_7H_5O_4N_2Br$ 4-Bromo-2:6-dinitrotoluene (Elson, Gibson, and Johnson), 2741.

$C_7H_5O_4N_2F$ 2-Fluoro-5-nitro-4-hydroxybenzaldoxime (Hodgson and Nixon), 1636.

$C_7H_5N_2S_2As$ 2-Thiolbenziminazole-5-arsenic disulphide (Everett), 675.

C_7H_6OClAs 3-Chlorotolylarsenious oxides (Gibson and Johnson), 777.

C_7H_6OBrAs 3-Bromotolylarsenious oxides (Gibson and Johnson), 778.

$C_7H_6O_2NCl$ 3-Chlorobenzoquinone-4-oxime methyl ether (Hodgson and Kershaw), 1557.

3-Chloro-4-nitrosoanisole (Hodgson and Kershaw), 1556.

$C_7H_6O_3NBr$ 2-Bromo-3-nitrotoluene (Gibson and Johnson), 1243.

Bromonitrotoluenes (Elson, Gibson, and Johnson), 2739.

$C_7H_6O_3NI$ 3-Iodo-4-nitrotoluene (Elson, Gibson, and Johnson), 2740.

$C_7H_6O_3NF$ Fluorohydroxybenzaldoximes (Hodgson and Nixon), 1635.

$C_7H_6O_3N_2Br$ 4-Bromonitrophenylmethylnitrosoamines (Macmillan and Reade), 2866.

$C_7H_6O_5ClAs$ 2-Chloro-4-carboxyphenylarsinic acid (Gibson and Johnson), 778.

$C_7H_6O_5BrAs$ 2-Bromo-4-carboxyphenylarsinic acid (Gibson and Johnson), 778.

$C_7H_6O_7NAs$ 6-Nitro-3:4-methylenedioxyphenylarsinic acid (Balaban), 1091.

$C_7H_6Cl_2BrAs$ 3-Bromotolyldichloroarsines (Gibson and Johnson), 778.

$C_7H_7OCl_3Te$ 4-Hydroxy-3-methylphenyltellurium trichloride (Morgan and Burgess), 2217.

$C_7H_7O_2N_2Br$ 4-Bromonitromonomethylanilines (Macmillan and Reade), 2867.

3-Bromo-*p*-tolylnitroamine (Bradfield and Orton), 918.

$C_7H_8O_3ClAs$ 3-Chlorotolylarsinic acids (Gibson and Johnson), 776.

$C_7H_8O_3BrAs$ 3-Bromotolylarsinic acids (Gibson and Johnson), 777.

$C_7H_8O_5NAs$ 6-Amino-3:4-methylenedioxyphenylarsinic acid (Balaban), 1091.

7 V

$C_7H_3O_4NBrF$ Fluorobromonitrohydroxybenzaldehydes (Hodgson and Nixon), 1637.

$C_7H_3NClBrS$ 1-Chloro-5-bromobenzthiazole (Dyson, Hunter, and Soyka), 461.

$C_7H_4ONS_2As$ 1-Thiobenzoxazolone-4-arsenic disulphide (Everett), 674.

$C_7H_5O_3NBrF$ 2-Fluoro-3-bromo-4-hydroxybenzaldoxime (Hodgson and Nixon), 1637.

$C_7H_6O_3NCl_2As$ 3-Nitrotolyldichloroarsines (Gibson and Johnson), 781.

$C_7H_6O_3NBr_2S$ 3-Nitro-*o*-tolyldibromoarsine (Gibson and Johnson), 782.

$C_7H_6O_4NClS$ 2-Chloro-5-nitro-*p*-toluenesulphinic acid (Dann and Davies), 1052.

$C_7H_6O_4NSAs$ 1-Thiolbenzoxazolone-4-arsinic acid (Everett), 677.

$C_7H_7O_3N_2SAs$ 2-Thiolbenziminazole-5-arsinic acid (Everett), 677.

$C_7H_8O_2NCl_4I$ Trigonelline tetrachloroiodide (Chattaway and Parkes), 1316.

$C_7H_8O_4N_3ClS$ Chloronitrotoluenesulphonhydrazides (Dann and Davies), 1053.

C_8 Group.

$C_8H_6O_4$ Phthalic acid, chlorination of (AYLING), 253; complex sodium copper salt (RILEY), 1310.

$C_8H_7O_3$ *o*-Nitroacetophenone, preparation of (KERMACK and SMITH), 814.

$C_8H_{10}O_4$ 2:5-Dimethoxyresorcinol (BAKER, NODZU, and ROBINSON), 78.

$C_8H_{11}N$ Dimethylaniline, interaction of tellurium tetrachloride with (MORGAN and BURGESS), 1103.

*cyclo*Hexylideneacetonitrile (KANDIAH and LINSTEAD), 2146.

$C_8H_{12}O_4$ *dl*-α-Hydroxy-β-*iso*propylglutarolactone (GIBSON and SIMONSEN), 1079.

$C_8H_{12}O_7$ β-Methylglucofuranoside 5:6-carbonate (HAWORTH and PORTER), 2804.

$C_8H_{12}N_2$ δ-3-Aminophenylethylamine, and its dihydrochloride (GULLAND, HAWORTH, and VIRDEN), 1672.

Tetramethylpyrazine, preparation and reduction of (KIPPING), 2891.

$C_8H_{14}O_2$ Ethyl pyroterebate (LINSTEAD), 2506.

ββδ-Trimethylvalerolactone (QUDRAT-I-KHUDA), 208.

$C_8H_{14}O_3$ γ-Acetyl-ββ-dimethylbutyric acid, synthesis of, and its silver salt (QUDRAT-I-KHUDA), 201.

$C_8H_{14}O_4$ Suberic acid, catalytic and thermal decomposition of (VOGEL), 729.

$C_8H_{14}O_5$ 3:4-Dimethyl δ-rhamnonolactone (HAWORTH, HIRST, and MILLER), 2477.

d-2:3:4-Trimethyl δ-arabonolactone (ANDERSON, CHARLTON, HAWORTH, and NICHOLSON), 1345.

Trimethylxylonolactones, conversion of, into the corresponding lyxonolactones (HAWORTH and LONG), 345.

$C_8H_{14}O_6$ Diethyl tartrate, action of phosphorus pentachloride on (PATTERSON and TODD), 1768.

Methylheptenone peroxide (HEILBRON, OWENS, and SIMPSON), 880.

$C_8H_{16}O_5$ 2:3-Dimethyl methylxyloside (HAMPTON, HAWORTH, and HIRST), 1747.

Dimethyl rhamnose (HAWORTH, HIRST, and MILLER), 2475.

$C_8H_{16}O_6$ α- and β-Ethylglucofuranosides (HAWORTH and PORTER), 2796.

$C_8H_{18}N_2$ Tetramethylpiperazines, and their salts (KIPPING), 2894.

S III

$C_8H_4O_6N_2$ Pyrazinetetracarboxylic acid, and its potassium salt (CHATTAWAY and HUMPHREY), 651.

$C_8H_5N_2Cl$ 6-Chloroquinoxaline (CHATTAWAY and HUMPHREY), 650.

$C_8H_5N_2Br$ 6-Bromoquinoxaline (CHATTAWAY and HUMPHREY), 650.

$C_8H_6O_3Br_2$ 3:5-Dibromo-2-hydroxy-4-methoxybenzaldehyde (RAO, SRIKANTIA, and IYENGAR), 1579.

$C_8H_6O_4N_2$ 2-Nitro-3-hydroxy-1:4-benz*iso*oxazine (BALABAN), 2609.

$C_8H_7O_3F$ Fluoromethoxybenzaldehydes (HODGSON and NIXON), 1638.

$C_8H_7O_3Br$ 5-Bromo-2-hydroxy-4-methoxybenzaldehyde (RAO, SRIKANTIA, and IYENGAR), 1579.

$C_8H_7O_3F$ Fluoromethoxybenzoic acids (HODGSON and NIXON), 1639.

$C_8H_7O_4N_2$ Nitroamino-3-hydroxy-1:4-benz*iso*oxazines (BALABAN), 2609.

$C_8H_7NS_2$ 2-Thio-1-methyl-1:2-dihydrobenz*iso*thiazole (MCCLELLAND, WARREN, and JACKSON), 1585.

C_8H_8OCl *N*-Chloroacetanilide, velocity of reaction of hydrobromic acid with (RICHARDSON and SOPER), 1873.

$C_8H_8O_2N_4$ 5-Nitro-1:6-dimethyl-1:2:3-benzthiazole (BRADY, DAY, and REYNOLDS), 2265.

C_8H_9OI 2-Iodo-4-methoxytoluene (ROBERTS and SMILES), 868.

$C_8H_9O_2N$ Methyl 6-methyl-2-pyridone-4-carboxylate (BARDHAN), 2228.

$C_8H_9O_3N_3$ *O*-Methyl-*m*-nitrobenzamidoxime (BRADY and PEAKIN), 2270.
$C_8H_9O_{12}B$ Borotartaric acid (BURGESS and HUNTER), 2856; potassium salt (LOWRY), 2853.
$C_8H_9NS_2$ 2-Methylthiolbenzothioamide (MCCLELLAND and WARREN), 2625.
$C_8H_{10}O_2N_2$ β-3-Nitrophenylethylamine, and its hydrochloride (GULLAND, HAWORTH, and VIRDEN), 1671.
$C_8H_{10}O_3N_2$ 2:6-Dihydroxy-3-*iso*propylpyridine oxime (GIBSON and SIMONSEN), 1078.
$C_8H_{10}NCl$ 2-Chloro-4-methyl-6-ethylpyridine (BARDHAN), 2230.
$C_8H_{11}ON$ *p*-Methoxybenzylamine, salts of (INGOLD and SHOPPEE), 1203.
$C_8H_{11}ON$ 4-Methyl-6-ethyl-2-pyridone (BARDHAN), 2230.
$C_8H_{11}O_2N$ 2:6-Dihydroxy-3-*iso*propylpyridine, and its hydrochloride (GIBSON and SIMONSEN), 1078.
$C_8H_{11}O_2N_3$ 6-Nitro-4-aminomethyl-*m*-toluidine (BRADY, DAY, and REYNOLDS), 2265.
$C_8H_{12}O_2N_2$ 3:5-Diaminoveratrole (BAKER and ROBINSON), 156.
$C_8H_{15}ON_3$ Methyl β-methylbutenyl ketone semicarbazones (QUDRAT-I-KHUDA), 1915.
$C_8H_{15}O_2Cl$ Ethyl γ-chloro*iso*hexoate (LINSTEAD), 2510.
$C_8H_{16}O_2N_2$ Piperazino-γ-butyric acid, and its chloroplatinate (MOORE, BOYLE, and THORN), 49.
$C_8H_{16}O_2N_4$ Dinitrosotetramethylpiperazines (KIPPING), 2896.
$C_8H_{16}O_5N_2$ *l*-Threose diacetamide (DEULOFEU), 2459.
$C_8H_{16}Br_2Se$ 1-3-Bromobutyl*cyclo*selenibutane 1-bromide (MORGAN and BURSTALL), 1101.
$C_8H_{17}ON$ Trimethyl-α-ethoxyallylamine, picrate of (INGOLD and ROTHSTEIN), 13.
$C_8H_{17}ON$ Vinyldiacetoneamine, action of aromatic acid chlorides on (GRAYMORE), 587.
$C_8H_{17}O_2N$ Triethylhydroxyaldehydomethylamine, picrate of (INGOLD and ROTHSTEIN), 14.
$C_8H_{17}O_5N$ Dimethyl rhamnonamide (HAWORTH, HIRST, and MILLER), 2477.

8 IV

$C_8H_5O_2N_2Br$ Phenylbromocyanonitromethane, nitration of (BAKER and INGOLD), 423.
$C_8H_5O_2Cl_7S_2$ 4-Ethoxy-4-trichloromethyl-2:6-bisdichloromethylene*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2916.
$C_8H_7O_2Cl_9S_3$ 4-Ethoxy-2:4:6-tristrichloromethyl*cyclo*-1:3:5-oxadithia-2:4:6-trimethylene (CHATTAWAY and KELLETT), 2916.
$C_8H_7O_3NS$ *N*-Methyl-*o*-benzoic sulphinide (MCCLELLAND, WARREN, and JACKSON), 1587.
$C_8H_7O_3N_2Cl$ *m*-Nitrobenzmethoxamyl chloride (BRADY and PEAKIN), 2270.
$C_8H_7O_4N_4F$ 2-Fluoro-5-nitro-4-hydroxybenzaldehyde semicarbazone (HODGSON and NIXON), 1636.
$C_8H_7N_2Cl_4I$ Quinoxaline tetrachloroiodide (CHATTAWAY and HUMPHREY), 649.
$C_8H_7O_2NF$ Fluoromethoxybenzaldoximes (HODGSON and NIXON), 1638.
$C_8H_7O_3N_2F$ Fluorohydroxybenzaldehyde semicarbazones (HODGSON and NIXON), 1635.
$C_8H_8O_4N_2As$ 1-Acetyl-1:2:3-benztriazolearsinic acids (PHILLIPS), 2827.
$C_8H_8O_4SHg_2$ Diacetoxymercurithiophen (BRISCOE, PEEL, and YOUNG), 2591.
$C_8H_8O_4SeHg_2$ Diacetoxymercuriselenophen (BRISCOE, PEEL, and YOUNG), 2592.
$C_8H_8O_8N_2As$ 3:5-Dinitro-4-acetamidophenylarsinic acid (PHILLIPS), 2828.
C_8H_9ONS 2-Methylthiolbenzamide (MCCLELLAND and WARREN), 2625.
$C_8H_9O_6N_2As$ Nitroacetamidophenylarsinic acids (PHILLIPS), 2826.

$C_9H_9N_2BrS$ 2-Thiolphenyl-4:5-dihydroglyoxaline hydrobromide (McClelland and Warren), 2627.

$C_9H_{10}ONCl$ Chloro-4-methoxy-*o*-toluidine (Roberts and Smiles), 868.

$C_9H_{10}O_2NBr$ 4-Bromo-2:5-dimethoxyaniline (Gulland, Robinson, Scott, and Thornley), 2930.

$C_9H_{11}O_4N_2As$ Aminoacetamidophenylarsinic acids (Phillips), 2826.

$C_9H_{11}NClBr$ *p*-Chlorobenzylmethylamine hydrobromide (Baker), 1206.

$C_9H_{20}O_8P_2Ba$ Barium diethyl phosphate (Plimmer and Burch), 294.

$C_9H_{20}O_{12}P_2Ba$ Barium di-β-hydroxyethyl phosphate (Plimmer and Burch), 284.

8 V

$C_9H_7O_2N_3BrF$ 2-Fluoro-3-bromo-4-hydroxybenzaldehyde semicarbazone (Hodgson and Nixon), 1637.

$C_9H_9O_4NClS$ 2-Chloro-5-nitro-*p*-tolylmethylsulphone (Dann and Davies), 1053.

$C_9H_9O_4NBrAs$ 2-Bromo-4-acetamidophenylarsinic acid (Haythornthwaite), 1013.

$C_9H_{19}O_2NCl_4I$ Methyl *N*-methylnicotinate tetrachloroiodide (Chattaway and Parkes), 1315.

C_9 Group.

$C_9H_6O_2$ Coumarin, photobromination of (Williams), 1383.

$C_9H_6O_3$ 4-Methoxyphthalide (Chakravarti and Perkin), 199.

$C_9H_8O_5$ 4-Methoxyphthalic acid (Chakravarti and Perkin), 199.

$C_9H_{10}O_2$ β-Methylsorbic acid (Burton and Ingold), 2029.

$C_9H_{12}N_2$ 1:2-Dimethylbenziminazole (Phillips), 2825.

$C_9H_{13}N$ 2-Methyl-$\Delta^{1(\text{or }6)}$-*cyclo*hexenyl-1-acetonitrile (Kandiah and Linstead), 2152.

$C_9H_{14}O_2$ Δ^1-*cyclo*Heptenylacetic acid (Hugh, Kon, and Mitchell), 1438.

δ-Hydroxy-β-methyl-β-ethyl-Δγ-hexenoic lactone (Qudrat-i-Khuda), 1918.

5-Methyl-5-ethyldihydroresorcinol (Qudrat-i-Khuda), 1917.

$C_9H_{14}O_5$ α-Carboxy-γ-acetyl-ββ-dimethylbutyric acid, ring-chain tautomerism of (Qudrat-i-Khuda), 201.

$C_9H_{14}O_7$ β-Ethylglucofuranoside 5:6-carbonate (Haworth and Porter), 2802.

$C_9H_{16}O_3$ γ-Acetyl-β-methyl-β-ethylbutyric acid, and its silver salt (Qudrat-i-Khuda), 1917.

Ethyl β-hydroxy-β-methyl-Δγ-hexenoate (Burton and Ingold), 2029.

$C_9H_{16}O_4$ Azelaic acid, dimorphism of (Caspari), 2709; catalytic and thermal decomposition of (Vogel), 730.

Ethyl hydrogen ββ-dimethylglutarate, and its silver salt (Qudrat-i-Khuda), 208.

$C_9H_{16}O_5$ Trimethyl glycogen (Haworth, Hirst, and Webb), 2484.

2:3:4-Trimethyl rhamnonolactone (Avery and Hirst), 2467.

$C_9H_{16}O_6$ Glucose-acetone, constitution of (Anderson, Charlton, and Haworth), 1329.

l-3:4:6-Trimethyl δ-mannonolactone (Haworth and Peat), 356.

$C_9H_{21}P$ Tri-*n*-propylphosphine (Davies, Pearse, and Jones), 1264.

9 III

$C_9H_5O_4N$ 5:6-Methylenedioxyisatin (Gulland, Robinson, Scott, and Thornley), 2931.

$C_9H_6O_7N_2$ Ox-6-nitro-3:4-methylenedioxyanilic acid (Gulland, Robinson, Scott, and Thornley), 2931.

$C_9H_8O_7N_2$ β-3:5-Dinitro-4-hydroxyphenylpropionic acid (Callow, Gulland, and Haworth), 1452.

C_9H_8NCl Triethyl-γ-chloroallylamine, picrate of (INGOLD and ROTHSTEIN), 12.
$C_9H_9O_2N$ 2:3-Dimethoxybenzonitrile (BAKER and EASTWOOD), 2907.
$C_9H_9O_3N$ ω-Nitro-3-methoxystyrene (GULLAND and VIRDEN), 1795.
$C_9H_9NS_2$ 2-Thio-1-ethyl-1:2-dihydrobenz*iso*thiazole (MCCLELLAND, WARREN, and JACKSON), 1585.
$C_9H_{10}ON_2$ 3-Cyano-4-methyl-6-ethyl-2-pyridone (BARDHAN), 2230.
$C_9H_{10}O_2N_2$ 2:6-Dihydroxy-3-cyano-4-*iso*propylpyridine (GIBSON and SIMONSEN), 1077.
$C_9H_{10}O_3N_2$ *o*-Nitroacetomethylanilide (PHILLIPS), 2824.
β-3-Nitrophenylpropionamide (GULLAND, HAWORTH, and VIRDEN), 1671.
$C_9H_{10}N_2S$ 2-*o*-Thiolphenyl-4:5-dihydroglyoxaline (MCCLELLAND and WARREN), 2624.
$C_9H_{11}OCl$ *p*-Chlorophenyl*iso*propyl ether (BRADFIELD, JONES, and ORTON), 2815.
$C_9H_{11}O_2N$ 3-Methoxyphenylacetaldoxime (GULLAND and VIRDEN), 1796.
$C_9H_{11}O_3N$ Hydroxyphenylalanines, isomeric (DICKINSON and MARSHALL), 1495.
$C_9H_{11}O_3N_3$ *m*-Nitrobenzodimethylamidoxime (BRADY and PEAKIN), 2269.
$C_9H_{11}O_4N$ 2-Aminoveratric acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2933.
$C_9H_{11}O_5N_3$ β-3:5-Dinitro-4-methoxyphenylethylamine, nitrate of (CALLOW, GULLAND, and HAWORTH), 1451.
$C_9H_{11}N_2Br$ *p*-Cyanobenzylmethylamine hydrobromide (BAKER), 1206.
$C_9H_{12}ON_2$ 5-Amino-2-acetamidotoluene (ELSON, GIBSON, and JOHNSON), 2739.
o-Aminoacetomethylanilide (PHILLIPS), 2824.
2-Keto-3-cyano-4:4:6-trimethyl-2:3:4:5-tetrahydropyridine (QUDRAT-I-KHUDA), 205.
$C_9H_{12}O_2N_2$ Nitrobenzyldimethylamines, and their salts (BENNETT and WILLIS), 264.
$C_9H_{13}ON$ 4:6-Dimethyl-5-ethyl-2-pyridone (BARDHAN), 2231.
Nor-*d*-ψ-ephedrine, resolution of externally compensated acids by means of (GIBSON and LEVIN), 2754.
$C_9H_{13}O_2N_5$ 3-Ethyl-1:2:4-triazole-5-azoacetylacetone (REILLY and MADDEN), 816.
$C_9H_{13}N_3Cl_2$ 6-Benziminazolylethylamine dihydrochloride (CHATTERJEE), 2967.
$C_9H_{14}O_3N_2$ 6-Hydroxy-2-keto-3-cyano-4:4:6-trimethylpiperidine (QUDRAT-I-KHUDA), 205.
$C_9H_{14}NBr$ *p*-Methylbenzylmethylamine hydrobromide (BAKER), 1206.
$C_9H_{16}O_2N_2$ Ethyl 4-ethylpiperazine-1-carboxylate (MOORE, BOYLE, and THORN), 46.
$C_9H_{17}O_3N_3$ δ-Amino-δ-hydroxy-α-cyano-ββ-dimethylhexoamide (QUDRAT-I-KHUDA), 206.
$C_9H_{17}O_2Cl$ *d*-β-Octyl chlorocarbonate, reactions of (HOUSSA and PHILLIPS), 2510.
$C_9H_{18}O_3N_2$ Ethyl 4-β-hydroxyethylpiperazine-1-carboxylate (MOORE, BOYLE, and THORN), 47.
$C_9H_{19}ON$ Trimethyl-α-hydroxyallylamine, picrate of (INGOLD and ROTHSTEIN), 13.
$C_9H_{19}ON_3$ Methyl *iso*hexyl ketone semicarbazone (HEILBRON and THOMPSON), 888.
$C_9H_{23}OP$ Triethyl-*n*-propylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2351.

9 IV

$C_9H_9N_2Br_3S$ 2-Thiolphenyl-4:5-dihydroglyoxaline perbromide (MCCLELLAND and WARREN), 2627.
$C_9H_{10}O_2N_2F$ Fluoromethoxybenzaldehyde semicarbazones (HODGSON and NIXON), 1638.
$C_9H_{10}O_6NAs$ 6-Acetamido-3:4-methylenedioxyphenylarsinic acid (BALABAN), 1091.

$C_9H_{11}ON_3S$ *o*-Thiolacetophenone semicarbazone (McClelland), 1591.
$C_9H_{11}O_4NS$ *dl*-Benzenesulphonylalanine, resolution of (Gibson and Levin), 2754.
$C_9H_{12}O_3N_2S$ Benzenesulphonylalanineamides (Gibson and Levin), 2757.
$C_9H_{12}O_5NAs$ *N*-Phenylalanine-4-arsinic acid, resolution of, and its brucine salt (Gibson, Johnson, and Levin), 483.
$C_9H_{12}O_6N_2S$ β-3-Nitro-4-methoxyphenylethylamine-5-sulphonic acid (Callow, Gulland, and Haworth), 1450.
$C_9H_{13}O_4N_2As$ *N*-Phenylalanineamide-4-arsinic acid (Gibson, Johnson, and Levin), 484.
$C_9H_{14}O_2N_2S$ *N*-Toluenesulphonylethylenediamine (Moore, Boyle, and Thorn), 50.

9 V

$C_9H_8ONBr_4Mo$ Quinolinium molybdenyl tetrabromide (Angell, James, and Wardlaw), 2581.

C_{10} Group.

10 II

$C_{10}H_{16}$ α-Terpinene, oxidation of, with benzoylhydroperoxide (Elson, Gibson, and Simonsen), 2732.
$C_{10}H_8O$ α- and β-Naphthols, structure of (King), 601; reaction of ethyl ether, acetyl bromide, and (Bassett and Taylor), 1568.
$C_{10}H_8O_4$ 7:8-Dihydroxy-2-methylchromone (Venkataraman), 2220.
$C_{10}H_8O_6$ 3:6-Dicarboxyhexahydrophthalic anhydride (Farmer and Warren), 906.
$C_{10}H_8O_6$ Dihydroprehnitic acid (Farmer and Warren), 905.
$C_{10}H_9N$ β-Naphthylamine, nitration of (Bell), 2784.
$C_{10}H_{10}O$ β-Decalones (Rao), 1961, 1967.
$C_{10}H_{10}O_3$ 3-Ethylidene *cis*-Δ⁴-tetrahydrophthalic anhydride (Farmer and Warren), 908.
$C_{10}H_{10}O_4$ 3:6-Dihydroxymethyl-*cis*-Δ⁴-tetrahydrophthalic acid lactone (Farmer and Warren), 904.
$C_{10}H_{10}O_5$ *iso*Opianic acid, synthesis of (Chakravarti and Perkin), 193.
$C_{10}H_{12}O$ α-Phenyl-γ-methylallyl alcohol (Burton), 456.
$C_{10}H_{12}O_2$ 4-Methoxy-2:5-dimethylbenzaldehyde (Clemo, Haworth, and Walton), 2377.
$C_{10}H_{12}O_3$ 4:5-Dimethyl-*cis*-Δ⁴-tetrahydrophthalic anhydride (Farmer and Warren), 902.
4-Methoxy-2:5-dimethylbenzoic acid (Clemo, Haworth, and Walton), 2377.
$C_{10}H_{12}O_4$ 3:6-Dihydroxymethylhexahydrophthalic acid lactone (Farmer and Warren), 904.
3-Ethylidene-*cis*-Δ⁴-tetrahydrophthalic acid (Farmer and Warren), 908.
$C_{10}H_{12}O_6$ 6-Carboxy-3-methyl-*cis*-Δ⁵-tetrahydrophthalic acid (Farmer and Warren), 906.
$C_{10}H_{12}O_6$ 3:6-Dicarboxyhexahydrophthalic acid (Farmer and Warren), 906.
$C_{10}H_{13}N$ α-Δ¹-*cyclo*Hexenylbutyronitrile (Kandiah and Linstead), 2150.
$C_{10}H_{14}O_4$ 4:5-Dimethyl-*cis*-Δ⁴-tetrahydrophthalic acid (Farmer and Warren), 902.
$C_{10}H_{14}O_6$ 3-Acetyl-4-methyl*cyclo*pentan-4-ol-1:2-dicarboxylic acid (Farmer and Warren), 903.
$C_{10}H_{14}O_7$ Glucose-acetone carbonate (Haworth and Porter), 2801.
$C_{10}H_{14}N_2$ Nicotine, purification and properties of (Lowry and Lloyd), 1376; and its salts, optical properties of (Lowry and Lloyd), 1771; determination of (Chattaway and Parkes), 2817.

$C_{10}H_{16}O$ *cyclo*Heptylideneacetone (HUGH, KON, and MITCHELL), 1438.
1:4-Oxido-Δ^2-*p*-menthene (ELSON, GIBSON, and SIMONSEN), 2734.
Piperitone (READ, WATTERS, ROBERTSON, and HUGHESDON), 2068; (READ and WATTERS), 2165.
$C_{10}H_{16}O_2$ Substance, from piperitone, chlorohydrin, and silver oxide (READ, WATTERS, ROBERTSON, and HUGHESDON), 2076.
$C_{10}H_{16}O_3$ *cyclo*Pentane-1-acetone-1-acetic acid (QUDRAT-I-KHUDA), 719.
$C_{10}H_{16}O_4$ Ethyl *dl*-α-hydroxy-β-*iso*propylglutarolactone (GIBSON and SIMONSEN), 1079.
$C_{10}H_{16}O_5$ α-Carboxy-γ-acetyl-β-methyl-β-ethylbutyric acid (QUDRAT-I-KHUDA), 1916.
$C_{10}H_{16}O_7$ 6-Carboxy-3-methyl-*cis*-hexahydrophthalic acid (FARMER and WARREN), 906.
$C_{10}H_{17}O_2$ δ-Hydroxy-ββ-diethyl-Δγ-hexenoic lactone (QUDRAT-I-KHUDA), 1920.
$C_{10}H_{17}N$ ψ-Anhydrolupinine, and its salts (CLEMO and RAPER), 1935.
$C_{10}H_{18}O_3$ γ-Acetyl-ββ-diethylbutyric acid (QUDRAT-I-KHUDA), 1919.
1-Ethoxy*cyclo*hexylacetic acid, silver salt (KON and LINSTEAD), 1282.
$C_{10}H_{18}O_4$ Ethyl hydrogen β-methyl-β-ethylglutarate, silver salt (QUDRAT-I-KHUDA), 1917.
Sebacic acid, catalytic and thermal decomposition of (VOGEL), 732.
$C_{10}H_{18}O_6$ Propyl racemates (CAMPBELL), 1113.
Tetramethylgluconolactones, conversion of, into the corresponding mannonolactones (HAWORTH and LONG), 345.
$C_{10}H_{19}N$ ψ-Anhydrodihydrolupinine, and its salts (CLEMO and RAPER), 1936.
$C_{10}H_{20}O_3$ Ethyl β-ethoxy*iso*hexoate (LINSTEAD), 2509.
$C_{10}H_{20}O_5$ 2:3:4-Trimethyl β-methylrhamnoside (HAWORTH, HIRST, and MILLER), 2476.
$C_{10}H_{21}N$ Menthylamines, salts of, with optically active acids (READ, STEELE, and CARTER), 23.

10 III

$C_{10}H_4O_5N_2$ Quinoxaline-2:3-dicarboxylic anhydride (CHATTAWAY and HUMPHREY), 648.
$C_{10}H_5O_2N_3$ Quinoxaline-2:3-dicarboxyimide (CHATTAWAY and HUMPHREY), 648.
$C_{10}H_6O_4N_2$ Quinoxaline-2:3-dicarboxylic acid, and its salts (CHATTAWAY and HUMPHREY), 647.
$C_{10}H_6N_2Br_4$ 5:6:7:8-Tetrabromo-2:3-dimethylquinoxaline (HENDERSON), 468.
$C_{10}H_7O_2N$ Quinaldinic acid, preparation of (TAYLOR), 1110.
$C_{10}H_7O_3N_3$ Quinoxaline-2:3-dicarboxyamic acid (CHATTAWAY and HUMPHREY), 648.
$C_{10}H_9O_3N$ 5-Cyano-2:3-dimethoxybenzaldehyde (CHAKRAVARTI and PERKIN), 195.
$C_{10}H_9O_3N_3$ Nitroacetamido-3-hydroxy-1:4-benz*iso*oxazines (BALABAN), 2609.
$C_{10}H_9O_4N$ 6:7-Dimethoxyisatin (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2933.
$C_{10}H_9O_5N$ Substance, from reduction of 2-nitro-3:4-dimethoxymandelic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2935.
$C_{10}H_9O_6N$ 3-Nitrobenzylmalonic acid (GULLAND, HAWORTH, and VIRDEN), 1671.
4-Nitro-1:2-diacetoxybenzene (BALABAN), 1092.
$C_{10}H_{10}O_2N_2$ Benziminazole-2-propionic acid (CHATTERJEE), 2966.
$C_{10}H_{10}O_3N_2$ Ethyl 3-cyano-6-methyl-2-pyridone-4-carboxylate (BARDHAN), 2227.
$C_{10}H_{10}O_3Br_2$ 3:6-Dibromomethyl-*cis*-Δ^4-tetrahydrophthalic anhydride (FARMER and WARREN), 903.
$C_{10}H_{11}O_2N$ 6:7-Dimethoxyoxindole (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2934.

$C_{10}H_{11}O_4N$ 4-Amino-1:2-diacetoxybenzene (BALABAN), 1092.
6:7-Dimethoxydioxindole (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2934.
Ethyl α-nitrophenylacetate, and its lithium salt (BAKER), 2261.
β-3-Nitro-4-methoxyphenylpropionic acid (CALLOW, GULLAND, and HAWORTH), 1452.
Ox-2:5-dimethoxyanilic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2929.
$C_{10}H_{11}O_7N$ 2-Nitro-3:4-dimethoxymandelic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2935.
$C_{10}H_{12}ON_2$ 3-Cyano-4:6-dimethyl-5-ethyl-2-pyridone (BARDHAN), 2231.
1-Methyl-2-α-hydroxyethylbenziminazole (PHILLIPS), 2826.
$C_{10}H_{12}ON_4$ Benziminazole-2-propionic hydrazide (CHATTERJEE), 2966.
$C_{10}H_{12}O_2N_2$ 2-Amino-3:4-dimethoxyphenylacetonitrile (GULLAND and VIRDEN), 1800.
2:5-Dimethoxyanilinoacetonitrile (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2928.
$C_{10}H_{12}O_4N_2$ β-3-Nitro-4-methoxyphenylpropionamide (CALLOW, GULLAND, and HAWORTH), 1452.
$C_{10}H_{12}O_5N_2$ 2-Nitro-3-4-dimethoxyphenylacetamide (GULLAND and VIRDEN), 1803.
$C_{10}H_{12}N_2S$ 1-Imino-2:3:5-trimethyl-1:2-dihydrobenzthiazole (HUNTER and PRIDE), 945.
2-*o*-Methylthiolphenyl-4:5-dihydroglyoxaline (MCCLELLAND and WARREN), 2625.
$C_{10}H_{13}ON$ Formyl-β-phenylethylmethylamine (GULLAND and VIRDEN), 1800.
$C_{10}H_{13}O_2N$ Formyl-β-3-methoxyphenylethylamine (GULLAND and VIRDEN), 1796.
$C_{10}H_{13}O_3N_3$ *m*-Nitrobenzomethylethylamidoxime (BRADY and PEAKIN), 2271.
$C_{10}H_{13}O_4N$ 2-Amino-3:4-dimethoxyphenylacetic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2934.
Iridamide (BAKER and ROBINSON), 160.
$C_{10}H_{13}ClS$ Phenyl δ-chlorobutyl sulphide (BENNETT, HEATHCOAT, and MOSSES), 2569.
$C_{10}H_{14}OS$ Phenyl δ-hydroxybutyl sulphide (BENNETT and HEATHCOAT), 273.
Phenyltetramethylsulphonium hydroxide, salts of (BENNETT, HEATHCOAT, and MOSSES), 2570.
$C_{10}H_{14}O_3N_2$ 2:5-Dimethoxyanilinoacetamide (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2929.
$C_{10}H_{14}N_2S$ *s-m*-Xylylmethylthiocarbamide (HUNTER and PRIDE), 945.
$C_{10}H_{15}ON$ α Hydroxyphenylethyldimethylamines, and their hydrochloride (E. and E. STEDMAN), 612.
$C_{10}H_{15}NBr_2$ *m*-Bromobenzyltrimethylammonium bromide (BAKER and INGOLD), 438.
$C_{10}H_{16}O_2N_2$ 6-Hydroxy-2-keto-3-cyano-4:6-dimethyl-4-ethylpiperidine (QUDRAT-I-KHUDA), 1916.
$C_{10}H_{17}ON_3$ Δ^1-*cyclo*Pentenylmethyl ethyl ketone semicarbazone (DICKINS, HUGH, and KON), 576.
*cyclo*Pentylidenemethyl ethyl ketone semicarbazone (DICKINS, HUGH, and KON), 575.
$C_{10}H_{17}OP$ Benzyltrimethylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2353.
$C_{10}H_{17}O_2Cl$ *dl*-Piperitone chlorohydrin (READ, WATTERS, ROBERTSON, and HUGHESDON), 2075.
$C_{10}H_{19}O_3N_3$ γ-Acetyl-β-methyl-β-ethylbutyric acid semicarbazone (QUDRAT-I-KHUDA), 1917.

$C_{10}H_{21}O_2N$ Triethylethoxyaldehydomethylamine, picrate of (INGOLD and ROTHSTEIN), 14.

$C_{10}H_{24}IP$ Methyltri-*n*-propylphosphonium iodide (DAVIES, PEARSE, and JONES), 1264.

10 IV

$C_{10}H_3O_3N_2Cl$ 6-Chloroquinoxaline-2:3-dicarboxylic anhydride (CHATTAWAY and HUMPHREY), 649.

$C_{10}H_3O_3N_2Br$ 6-Bromoquinoxaline-2:3-dicarboxylic anhydride (CHATTAWAY and HUMPHREY), 650.

$C_{10}H_4O_4NCl_5$ 6-Nitro-2(or 4)-trichloromethyl-4(or 2)-dichloromethylene-1:3-benzdioxin (CHATTAWAY and IRVING), 1048.

$C_{10}H_5O_4N_2Cl$ 6-Chloroquinoxaline-2:3-dicarboxylic acid, and its salts (CHATTAWAY and HUMPHREY), 649.

$C_{10}H_5O_4N_2Br$ 6-Bromoquinoxaline-2:3-dicarboxylic acid, and its salts (CHATTAWAY and HUMPHREY), 650.

$C_{10}H_7O_2BrS$ 1-Bromonaphthalene-2-sulphinic acid (COHEN and SMILES), 211.

$C_{10}H_9ONS$ 1-Acetyl-2-methylene-1:2-dihydrobenz*iso*thiazole (MCCLELLAND), 1591.

$C_{10}H_9O_3N_2Br$ Ethyl 5-bromo-3-cyano-6-methyl-2-pyridone-4-carboxylate (BARDHAN), 2227.

$C_{10}H_9O_4NS$ Hydrogen 4-amino-1-naphthyl sulphate (BURKHARDT and WOOD), 147.

$C_{10}H_9O_6N_2Cl$ γ-Chloropropyl 3:5-dinitrobenzoate (BENNETT and HEATHCOAT), 271.

$C_{10}H_{10}O_4N_4Cu$ Dipyridinocupric nitrite (KING), 2596.

$C_{10}H_{10}N_2I_2Co$ Cobaltous iodide dipyridine (PERCIVAL and WARDLAW), 1509.

$C_{10}H_{12}O_2N_2Cu$ Dipyridinocupric hydroxide, salts of (KING), 2595.

$C_{10}H_{12}O_3NBr$ Aceto-4-bromo-2:5-dimethoxyanilide (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2930.

$C_{10}H_{12}N_2Cl_4Co$ Dipyridinium cobaltous chloride (PERCIVAL and WARDLAW), 1508.

$C_{10}H_{12}N_2Br_4Co$ Dipyridinium cobaltous bromide (PERCIVAL and WARDLAW), 1509.

$C_{10}H_{13}O_4NS$ Benzenesulphonylalanine methyl esters (GIBSON and LEVIN), 2757.

$C_{10}H_{14}ONI$ Benzaldehyde-*p*-trimethylammonium iodide (HODGSON and COOPER), 233.

$C_{10}H_{14}O_4N_2S$ 1-Methylbenziminazole methosulphate (PHILLIPS), 2825.

$C_{10}H_{14}O_5NAs$ Methyl *N*-phenylalanine-4-arsinate (GIBSON, JOHNSON, and LEVIN), 483.

dl-N-o-Tolylalanine-5-arsinic acid (GIBSON and LEVIN), 2760.

$C_{10}H_{15}O_4N_2As$ *dl-N-o*-Tolylalanineamide-5-arsinic acid, and its resolution and salts (GIBSON and LEVIN), 2761.

$C_{10}H_{16}N_2Cl_8I_2$ Nicotine tetrachloroiodide (CHATTAWAY and PARKES), 1314.

$C_{10}H_{20}Cl_6Se_2Pt$ Bis-1-chloro*cyclo*selenipentane 1-chloroplatinate (MORGAN and BURSTALL), 2201.

10 V

$C_{10}H_6OClBrS$ 1-Bromonaphthalene-2-sulphinyl chloride (COHEN and SMILES), 211.

$C_{10}H_6O_2ClBrS$ 1-Bromonaphthalene-2-sulphonyl chloride (COHEN and SMILES), 211.

$C_{10}H_6O_6NSK$ Potassium 4-nitro-1-naphthyl sulphate (BURKHARDT and WOOD), 145.

$C_{10}H_6ONBrS$ 1-Bromoacetyl-2-methylene-1:2-dihydrobenz*iso*thiazole (MCCLELLAND), 1591.

$C_{10}H_6O_4NSK$ Potassium 1-amino-2-naphthyl sulphate (BURKHARDT and WOOD), 146.

$C_{10}H_{13}ON_2Br_5Mo$ Dipyridinium molybdenyl pentabromide (ANGELL, JAMES, and WARDLAW), 2582.

$C_{10}H_{12}O_4NS_2As$ Di(carboxymethyl) 4-aminophenylthioarsenite (BARBER), 1022.

$C_{10}H_{12}O_5NS_2As$ Di(carboxymethyl) 3-amino-4-hydroxyphenylthioarsinite (BARBER), 1023.

$C_{10}H_{12}O_5N_3S_2As$ 5-Nitro-2-hydroxyphenylarsinic acid thiolacetamide (BARBER), 2335.

$C_{10}H_{14}O_2N_2S_2As$ Di(carbamylmethyl) 4-aminophenylthioarsinite (BARBER), 1022.

$C_{10}H_{14}O_3N_2S_2As$ Di(carbamylmethyl) 3-amino-4-hydroxyphenylthioarsinite (BARBER), 1023.

10 VI

$C_{10}H_{11}O_4N_2ClS_2As$ 3-Chloro-6-nitrophenylarsinic acid thiolacetamide (BARBER), 2336.

$C_{10}H_{11}O_4N_2BrS_2As$ Bromonitrophenylarsinic acid thiolacetamide (BARBER), 2335.

$C_{10}H_{11}O_4N_2IS_2As$ 2-Iodo-5-nitrophenylarsinic acid thiolacetamide (BARBER), 2336.

$C_{10}H_{12}O_2N_2BrS_2As$ 3-Bromophenylarsinic acid thiolacetamide (BARBER), 2337.

Di(carbamylmethyl) *o*-bromophenylthioarsinite (BARBER), 2335.

C_{11} Group.

$C_{11}H_{18}$ 3-Methyl-$\Delta^{1:3}$-menthadiene (READ and WATTERS), 2169.

11 II

$C_{11}H_8N_2$ 2:3-Pyrrolo(4′:5′)-quinoline (ROBINSON), 2949.

$C_{11}H_{11}N$ 2:3-Dimethylquinoline, preparation of (PLANT and ROSSER), 1864.

$C_{11}H_{12}O_3$ 4-Hydroxy-2:5-dimethylcinnamic acid (CLEMO, HAWORTH, and WALTON), 2377.

$C_{11}H_{13}N$ β-2:4-Dimethylphenylpropionitrile (CLEMO, HAWORTH, and WALTON), 2375.

$C_{11}H_{14}O_2$ 4-Methoxy-2:5-dimethylacetophenone (CLEMO, HAWORTH, and WALTON), 2376.

$C_{11}H_{14}O_4$ *cyclo*Pentane-1-acetone-1-malonic acid dilactone (QUDRAT-I-KHUDA), 719.

$C_{11}H_{14}O_6$ 2:4-Dihydroxy-ω-3:6-trimethoxyacetophenone (BAKER, NODZU, and ROBINSON), 79.

$C_{11}H_{16}O_2$ *cyclo*Pentane*spiro*-4-methyl*cyclo*hexane-3:5-dione (DICKINS HUGH, and KON), 576.

$C_{11}H_{16}O_5$ *cyclo*Pentane-1-acetone-1-malonic acid (QUDRAT-I-KHUDA), 719.

$C_{11}H_{16}O_3$ *cyclo*Hexane-1-acetone-1-acetic acid, and its silver salt (QUDRAT-I-KHUDA), 717.

$C_{11}H_{18}O_4$ Ethyl $\Delta\beta$-butenylmalonate (ECCOTT and LINSTEAD), 2163.

$C_{11}H_{18}O_5$ α-Carboxy-γ-acetyl-$\beta\beta$-diethylbutyric acid (QUDRAT-I-KHUDA), 1918.

$C_{11}H_{19}N$ Anhydromethyl-lupanine, and its salts (CLEMO and RAPER), 1926.

$C_{11}H_{20}O_2$ 1-Ethoxy*cyclo*hexylacetone (KON and LINSTEAD), 1276.

$C_{11}H_{20}O_3$ Acid, from cutin, and its silver salt (LEGG and WHEELER), 2446.

$C_{11}H_{20}O_4$ Ethyl hydrogen $\beta\beta$-diethyl glutarate, silver salt (QUDRAT-I-KHUDA), 1919.

$C_{11}H_{20}O_6$ Acetyl methylrhamnoside (HAWORTH, HIRST, and MILLER), 2475.

$C_{11}H_{20}O_9$ *l*-2-Carbomethoxy-3:4:6-trimethylmannonic acid (HAWORTH and PEAT), 355.

$C_{11}H_{21}N$ Anhydrodihydromethyl-lupanines, and their salts (CLEMO and RAPER), 1937.

$C_{11}H_{22}O_2$ 4:8-Dimethylnonoic acid (HEILBRON and THOMPSON), 891.

11 III

$C_{11}H_{10}ON_2$ 3-Formamidoquinaldine (ROBINSON), 2949.

$C_{11}H_{10}O_2N_2$ Nitrodihydropentindoles (PLANT), 2495.

$C_{11}H_{11}O_4N$ α-Methylallyl *p*-nitrobenzoate (BURTON), 456.

$C_{11}H_{11}O_4N$ 5-Nitro-2:3-dimethoxycinnamic acid (CHAKRAVARTI and PERKIN), 194.

$C_{11}H_{11}NS$ Penthienoindole (BENNETT and WADDINGTON), 2830.

$C_{11}H_{13}O_2N_2$ Ethyl 3-cyano-1:6-dimethyl-2-pyridone-4-carboxylate (BARDHAN), 2227.

10-Nitro-9-hydroxytetrahydropentindole (PLANT), 2496.

$C_{11}H_{12}O_4N_4$ 6:7-Dimethoxyisatin semicarbazone (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2933.

$C_{11}H_{13}O_2N$ 1-Keto-6-methoxy-2-methyltetrahydro*iso*quinoline (GULLAND and VIRDEN), 1798.

$C_{11}H_{13}O_2N_3$ *cyclo*Pentanone nitrophenylhydrazones (PLANT), 2495.

$C_{11}H_{13}O_3N$ 3:4:5-Trimethoxyphenylacetonitrile (BAKER and ROBINSON), 157.

$C_{11}H_{13}O_4N$ 5-Amino-2:3-dimethoxycinnamic acid (CHAKRAVARTI and PERKIN), 195.

$C_{11}H_{14}ON_2$ *N*-Benzoylpiperazine (MOORE, BOYLE, and THORN), 46.

$C_{11}H_{14}O_2N_2$ Diacetyl-*o*-aminomethylaniline (PHILLIPS), 2824.

$C_{11}H_{14}O_3S$ 4-Phenylpenthian-4-ol oxides (BENNETT and WADDINGTON), 2834.

$C_{11}H_{14}OS$ 4-Phenylpenthian-4-ol (BENNETT and WADDINGTON), 2831.

$C_{11}H_{14}O_3S$ Sulphone from phenylpenthianol (BENNETT and WADDINGTON), 2832.

$C_{11}H_{14}N_2Cl_2$ β-Aminoethylquinolinium chloride hydrochlorides (SESHADRI), 2953.

$C_{11}H_{14}N_2Br_2$ β-Aminoethylquinolinium bromide hydrobromides (SESHADRI), 2953.

$C_{11}H_{14}N_2S$ Penthianone phenylhydrazone (BENNETT and WADDINGTON), 2830.

$C_{11}H_{15}ON$ 6-Methoxy-2-methyltetrahydro*iso*quinoline, and its hydriodide (GULLAND and VIRDEN), 1798.

$C_{11}H_{15}O_2N$ 1-Hydroxy-6-methoxy-2-methyltetrahydro*iso*quinoline (GULLAND and VIRDEN), 1797.

$C_{11}H_{15}O_4N$ 3:4:5-Trimethoxyphenylacetamide (BAKER and ROBINSON), 158.

$C_{11}H_{15}ClS$ Phenyl ε-chloroamyl sulphide (BENNETT, HEATHCOAT, and MOSSES), 2569.

$C_{11}H_{16}OS$ Phenyl ε-hydroxyamyl sulphide (BENNETT and HEATHCOAT), 274.

Phenylpentamethylenesulphonium hydroxide, salts of (BENNETT, HEATHCOAT, and MOSSES), 2570.

$C_{11}H_{16}O_2N_2$ *cyclo*Pentane*spirocyclo*-3-hydroxy-6-cyano-3-methyl-5-piperidone (QUDRAT-I-KHUDA), 719.

$C_{11}H_{16}NCl$ 2:6-Dimethyl-1:2:3:4-tetrahydroquinoline hydrochloride (PLANT and ROSSER), 1865.

$C_{11}H_{17}ON$ Substance, from *l*-piperitone and potassium cyanide (READ and WATTERS), 2172.

$C_{11}H_{17}O_2N$ Ethyl α-cyano-γ-acetyl-ββ-dimethylbutyrate (QUDRAT-I-KHUDA), 205.

$C_{11}H_{18}O_2N_2$ 6-Hydroxy-2-keto-3-cyano-6-methyl-4:4-diethylpiperidine (QUDRAT-I-KHUDA), 1918.

$C_{11}H_{19}ON_3$ *cyclo*Heptenylacetone (HUGH, KON, and MITCHELL), 1439.

$C_{11}H_{19}O_2N_3$ *cyclo*Pentane-1-acetone-1-acetic acid semicarbazone (QUDRAT-I-KHUDA), 720.

$C_{11}H_{19}O_5N_3$ α-Carboxy-γ-acetyl-β-methyl-β-ethylbutyric acid semicarbazone (QUDRAT-I-KHUDA), 1916.

$C_{11}H_{20}O_4N_2$ Ethyl 4-carbethoxypiperazinoacetate (MOORE, BOYLE, and THORN), 48.

$C_{11}H_{21}O_3N_3$ 1-Methoxy*cyclo*hexylacetone semicarbazone (KON and LINSTEAD), 1276.

$C_{11}H_{22}ON$ 4:8-Dimethylnonamide (HEILBRON and THOMPSON), 891.

Triethyl-α-ethoxyallylamine, picrate of (INGOLD and ROTHSTEIN), 12.

$C_{11}H_{27}OP$ Ethyltri-*n*-propylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2351.

11 IV

$C_{11}H_{10}NBrS$ 8-Bromopenthienoindole (BENNETT and WADDINGTON), 2830.

$C_{11}H_{12}ON_2S$ 1-Imino-2-acetyl-3:5-dimethyl-1:2-dihydrobenzthiazole (HUNTER and PRIDE), 944.

$C_{11}H_{12}O_4N_3Cl$ Chlorodinitrophenylpiperidines (GROVES, TURNER, and SHARP), 521.

$C_{11}H_{13}ON_2Cl$ β-Aminoethylquinolone hydrochlorides (SESHADRI), 2954.

$C_{11}H_{13}O_3N_2Cl$ 1-β-Aminoethyl-6-hydroxy-2-quinolone hydrochloride (SESHADRI), 2956.

$C_{11}H_{13}O_2N_3S$ Penthianone-*p*-nitrophenylhydrazone (BENNETT and WADDINGTON), 2830.

$C_{11}H_{13}N_2BrS$ Penthian-*p*-bromophenylhydrazone (BENNETT and WADDINGTON), 2830.

$C_{11}H_{14}ONI$ 6-Methoxy-3:4-dihydro*iso*quinoline methiodide (GULLAND and VIRDEN), 1797.

$C_{11}H_{14}ONI_3$ 6-Methoxy-3:4-dihydro*iso*quinoline methiodide periodide (GULLAND and VIRDEN), 1797.

$C_{11}H_{14}ONI_5$ 6-Methoxy-3:4-dihydro*iso*quinoline methiodide periodide (GULLAND and VIRDEN), 1797.

$C_{11}H_{14}ON_2Cl_2$ β-Aminoethyl-6-hydroxyquinolinium chloride hydrochloride (SESHADRI), 2955.

$C_{11}H_{14}ON_2S$ Acetyl-*m*-xylylthiocarbamide (HUNTER and PRIDE), 944.

$C_{11}H_{16}O_2N_2S$ *N*-*p*-Toluenesulphonylpiperazine (MOORE, BOYCE, and THORN), 46.

$C_{11}H_{16}O_4N_2S_2$ 1-Amino-3:5-dimethylbenzthiazole methosulphate (HUNTER and PRIDE), 946.

$C_{11}H_{16}O_5NAs$ Ethyl *N*-phenylalanine-4-arsinate (GIBSON, JOHNSON, and LEVIN), 483.

dl-*N*-*o*-Tolylalanine-5-arsinic acid methyl ester (GIBSON and LEVIN), 2760.

$C_{11}H_{17}ON_3Cl_2$ β-Ethoxybenziminazolylethylamine dihydrochloride (CHATTERJEE), 2968.

$C_{11}H_{21}NCl$ Chlorolupinine methiodide (CLEMO and RAPER), 1934.

11 V

$C_{11}H_{13}ON_2Br_3S$ 1-Acetamido-3:5-dimethylbenzthiazole hydrotribromide (HUNTER and PRIDE), 944.

C_{12} Group.

$C_{12}H_{20}$ 3-Ethyl-$\Delta^{1,3}$-menthadiene (READ and WATTERS), 2170.

12 II

$C_{12}H_{10}O_4$ Piperic acid, hydrogenation of (LEBEDEV and YAKUBCHIK), 220.

$C_{12}H_{10}N_2$ 2:3-(2′-Methylpyrrolo)(4′:5′)-quinoline (ROBINSON), 2949.

$C_{12}H_{10}Se_2$ Diphenyl diselenide, parachor of (HENLEY and SUGDEN), 1063.

$C_{12}H_{11}N$ Benzylpyridines, and their nitrates (BRYANS and PYMAN), 550.

$C_{12}H_{12}O_4$ Phenylacetylacetone-*o*-carboxylic acid (HURTLEY), 1871.

$C_{12}H_{14}O_2$ 6-Methoxy-4:7-dimethyl-α-hydrindone (CLEMO, HAWORTH, and WALTON), 2378.

γ-Phenyl-α-methylallyl acetate (BURTON), 457.

$C_{12}H_{14}O_3$ 4-Methoxy-2:5-dimethylcinnamic acid (CLEMO, HAWORTH, and WALTON), 2377.
$C_{12}H_{15}N$ 2:3:4:5:6:13-Hexahydro-α-quinindene (BLOUNT, PERKIN, and PLANT), 1985.
$C_{12}H_{15}Cl$ *p*-Chlorophenyl*cyclo*hexane (MAYES and TURNER), 502.
$C_{12}H_{15}Br$ *p*-Bromophenyl*cyclo*hexane (MAYES and TURNER), 503.
$C_{12}H_{15}I$ *p*-Iodophenyl*cyclo*hexane (MAYES and TURNER), 503.
$C_{12}H_{16}O$ *cyclo*Hexane-1-acetone-1-malonic acid, dilactone of (QUDRAT-I-KHUDA), 717.
$C_{12}H_{16}O_3$ β-4-Methoxy-2:5-dimethylphenylpropionic acid (CLEMO, HAWORTH, and WALTON), 2377.
$C_{12}H_{16}O_4$ Methyl β-3:4-dimethoxyphenylpropionate (CHILD and PYMAN), 2014.
$C_{12}H_{16}O_7$ β-*p*-Hydroxyphenylgalactoside (ROBERTSON), 1821.
$C_{12}H_{17}N$ $\Delta^{2\cdot3(1\cdot2)}$ *trans*-Decahydronaphthalene-2-acetonitrile (RAO), 1964.
$C_{12}H_{18}O_5$ *cyclo*Hexane-1-acetone-1-malonic acid (QUDRAT-I-KHUDA), 716.
$C_{12}H_{18}N_2$ 2:4-Diaminophenyl*cyclo*hexane (MAYES and TURNER), 505.
$C_{12}H_{19}P$ Phenyldi-*n*-propylphosphine (DAVIES, PEARSE, and JONES), 1264.
$C_{12}H_{20}O_3$ Methyl *cyclo*hexane-1-acetone-1-acetate (QUDRAT-I-KHUDA), 718.
$C_{12}H_{20}O_5$ Ethyl α-acetyl-β-methylglutarate (BURTON and INGOLD), 2030.
$C_{12}H_{20}O_6$ Fructose-diacetone, constitution of (ANDERSON, CHARLTON, and HAWORTH), 1337.
Glucose-diacetone, constitution of (ANDERSON, CHARLTON, and HAWORTH), 1329.
$C_{12}H_{22}O_3$ Ethyl γ-acetyl-ββ-diethylbutyrate (QUDRAT-I-KHUDA), 1919.
Ethyl 1-ethoxy*cyclo*hexylacetate (KON and LINSTEAD), 1282.
$C_{12}H_{22}O_4$ Butyl racemates (CAMPBELL), 1113.
$C_{12}H_{22}O_{11}$ Lactose, compound of, with lime (MACKENZIE and QUIN), 963.
Maltose, compound of, with lime (MACKENZIE and QUIN), 962.
Sucrose, compounds of, with baryta, lime, strontia, and potassium chloride (MACKENZIE and QUIN), 956.
$C_{12}H_{24}O$ 3-Ethylmenthan-3-ol (READ and WATTERS), 2170.
Hexahydro-ψ-ionone (HEILBRON and THOMPSON), 888.
$C_{12}H_{24}O_4$ Hexoic acid, zinc salt (HAWORTH), 1460.
$C_{12}H_{27}P$ Tri-*n*-butylphosphine (DAVIES and JONES), 34.
Tri*iso*butylphosphine (DAVIES, PEARSE, and JONES), 1265.

12 III

$C_{12}H_6NCl_5$ Hexachlorodiphenylamine (CHAPMAN), 571.
$C_{12}H_7OCl_3$ 2:4:4′-Trichlorodiphenyl ether (GROVES, TURNER, and SHARP), 520.
$C_{12}H_7O_3N_3$ Quinoxaline-2:3-dicarboxyimide, acetyl derivative (CHATTAWAY and HUMPHREY), 648.
$C_{12}H_7O_4N_3$ 7-Nitro-δ-carboline-3-carboxylic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2941.
$C_{12}H_7O_6N_3$ Trinitrodiphenyls (GULL and TURNER), 495.
$C_{12}H_7NCl_4$ Tetrachlorodiphenylamines (CHAPMAN), 571.
$C_{12}H_8OI_2$ 4′:4′-Di-iododiphenyl ether (SCARBOROUGH), 2367.
$C_{12}H_8O_3N_2$ Nitrobenzoylpyridines (BRYANS and PYMAN), 551.
$C_{12}H_8O_4N_2$ 2:4-Dinitrodiphenyl (GULL and TURNER), 496.
$C_{12}H_8NCl_3$ 2:4:6-Trichlorodiphenylamine (CHAPMAN), 571.
$C_{12}H_8ClBr$ 4-Chloro-4′-bromodiphenyl (GROVES and TURNER), 511.
$C_{12}H_8Br_2As_2$ 4:4′-Dibromoarsenobenzene (HAYTHORNTHWAITE), 1014.
$C_{12}H_9OI$ 4-Iododiphenyl ether (SCARBOROUGH), 2367.

$C_{12}H_9O_3N_3$ Nitroaceto-β-naphthalide (Bell), 2785.
$C_{12}H_{10}OSe$ Diphenyl selenoxide, parachor of (Henley and Sugden), 1064.
$C_{12}H_{10}O_3N_2$ 3-*p*-Nitrobenzylpyridine, and its picrate (Bryans and Turner), 552.
$C_{12}H_{10}O_3N_2$ 3-Nitro-4-aminodiphenyl ether (Scarborough), 2366.
$C_{12}H_{10}N_2Br_2$ Dibromo-2:2′-diaminodiphenyls (Le Fèvre), 736.
$C_{12}H_{10}ClAs$ Diphenylchloroarsine, parachor of (Henley and Sugden), 1063.
$C_{12}H_{11}ON$ 4-Acetamidodiphenyl ether, and its hydrochloride (Scarborough), 2365.
Ketotetrahydroquinindenes (Blount, Perkin, and Plant), 1982.
Phenylmethylpyridones (Bardhan), 2228.
$C_{12}H_{11}O_4N$ 5-Cyano-2:3-dimethoxycinnamic acid (Chakravarti and Perkin), 195.
$C_{12}H_{11}O_4N_3$ 8-Nitro-5-acetamido-6-methoxyquinoline (Baldwin), 2961.
$C_{12}H_{12}ON_2$ 3-Acetamidoquinaldine (Robinson), 2949.
$C_{12}H_{12}O_2N_2$ 5-Acetamido-6-methoxyquinoline (Baldwin), 2961.
2-Ketomethoxy-2:3:4:5-tetrahydro-β-carbolines (Barrett, Perkin, and Robinson), 2944.
$C_{12}H_{13}ON$ 5-Keto-2:3:4:5:6:13-hexahydro-α-quinindenes (Blount, Perkin, and Plant), 1984.
$C_{12}H_{13}O_2N$ *cyclo*Pentanone-2-carboxyanilide (Blount, Perkin, and Plant), 1983.
N-β-Phenylethylsuccinimide (Child and Pyman), 2014.
$C_{12}H_{13}O_2N_3$ 8-Amino-5-acetamido-6-methoxyquinoline (Baldwin), 2961.
$C_{12}H_{13}O_3N$ β-Methoxyindole-3-propionic acids (Barrett, Perkin, and Robinson), 2944.
$C_{12}H_{13}O_4N$ Methyl 5-nitro-2:3-dimethoxycinnamate (Chakravarti and Perkin), 194.
$C_{12}H_{14}O_3N_2$ Ethoxybenziminazole-2-propionic acid (Chatterjee), 2967.
$C_{12}H_{14}O_4N_2$ α-Cyano-2-nitro-3:4-dimethoxystilbene (Gulland, Haworth, Virden, and Callow), 1673.
2:4-Dinitrophenyl*cyclo*hexane (Mayes and Turner), 504.
$C_{12}H_{14}O_4N_2$ 2-Nitro-4-ethoxysuccinanilic acid (Chatterjee), 2967.
$C_{12}H_{15}ON$ *n*-Hexenoic anilides (Eccott and Linstead), 2162.
$C_{12}H_{15}O_2N$ *o*-Nitrophenyl*cyclo*hexane (Mayes and Turner), 504.
$C_{12}H_{15}O_2N_3$ Ethoxybenziminazole-2-propionamide (Chatterjee), 2968.
$C_{12}H_{15}O_3N_3$ β-Methoxyindole-3-propionic hydrazides (Barrett, Perkin, and Robinson), 2944.
$C_{12}H_{15}O_5N_3$ Carbethoxy-*m*-nitrobenzodimethylamidoxime (Brady and Peakin), 2270.
Carbomethoxy-*m*-nitrobenzomethylethylamidoxime (Brady and Peakin), 2271.
$C_{12}H_{15}O_6N$ *p*-Nitrobenzoyloxydimethoxypropane (Fairbourne), 1152.
$C_{12}H_{16}OS$ 4-Benzylpenthian-4-ol- (Bennett and Waddington), 2832.
$C_{12}H_{16}O_2N_2$ α-Cyanomethyl*cyclo*hexane-1:1-diacetimides (Kandiah and Linstead), 2152.
2-Nitro-4-aminophenyl*cyclo*hexane (Mayes and Turner), 505.
$C_{12}H_{16}O_2S$ 4-Benzylpenthian-4-ol oxides (Bennett and Waddington), 2835.
$C_{12}H_{16}O_3N_2$ *N*-Benzoyl-*N*′-carbethoxyethylenediamine (Moore, Boyle, and Thorn), 50.
$C_{12}H_{16}O_3S$ Sulphone from 4-benzylpenthian-4-ol (Bennett and Waddington), 2832.
$C_{12}H_{16}N_2Cl_2$ γ-Aminopropylquinolinium chloride hydrochlorides (Seshadri), 2954.

$C_{12}H_{16}N_2Br_2$ γ-Aminopropylquinolinium bromide hydrobromides (SESHADRI), 2954.

$C_{12}H_{17}O_3N$ β-4-Methoxy-2:5-dimethylphenylpropionamide (CLEMO, HAWORTH, and WALTON), 2378.

$C_{12}H_{17}N_2Cl$ 4-Chloro-2:5-diaminophenyl*cyclo*hexane (MAYES and TURNER), 508.

$C_{12}H_{18}O_3N_2$ *cyclo*Hexane*spirocyclo*-3-hydroxy-6-cyano-3-methyl-5-piperidone (QUDRAT-I-KHUDA), 716.

α-Hydroxyphenylethyldimethylamines, methylurethanes of (E. and E. STEDMAN), 6.

$C_{12}H_{19}O_5N_3$ *cyclo*Pentane-1-acetone-1-malonic acid semicarbazone (QUDRAT-I-KHUDA), 719.

$C_{12}H_{20}O_3N_4$ Ethyl α-cyano-γ-acetyl-ββ-dimethylbutyrate semicarbazone (QUDRAT-I-KHUDA), 205.

$C_{12}H_{21}O_3N_3$ *cyclo*Hexane-1-acetone-1-acetic acid semicarbazone (QUDRAT-I-KHUDA), 718.

Methyl *cyclo*pentane-1 acetone-1-acetate semicarbazone (QUDRAT-I-KHUDA), 720.

$C_{12}H_{21}O_4Br$ Ethyl α-bromo-β-*iso*propylglutarate (GIBSON and SIMONSEN), 1078.

$C_{12}H_{21}O_5N_3$ α-Carboxy-γ-acetyl-ββ-diethylbutyric acid semicarbazone (QUDRAT-I-KHUDA), 1918.

$C_{12}H_{22}O_4N_2$ Ethyl 4-carbethoxypiperazino-β-propionate (MOORE, BOYLE, and THORN), 49.

$C_{12}H_{22}NCl$ Chlorodimethyl-lupinines (CLEMO and RAPER), 1934.

$C_{12}H_{22}NI$ ψ-Anhydromethyl-lupinine methiodide (CLEMO and RAPER), 1936.

$C_{12}H_{23}O_2N_3$ 1-Ethoxy*cyclo*hexylacetone semicarbazone (KON and LINSTEAD), 1276.

$C_{12}H_{24}Br_2Se_2$ Tetramethylene-αδ-bis*cyclo*selenibutane 1:1-dibromide (MORGAN and BURSTALL), 1101.

$C_{12}H_{25}ON_3$ 4:8-Dimethylnonaldehyde (HEILBRON and THOMPSON), 892.

$C_{12}H_{27}OP$ Tri-*n*-butylphosphine oxide (DAVIES and JONES), 34.

$C_{12}H_{28}BrP$ Tetra-*n*-propylphosphonium bromide (DAVIES, PEARSE, and JONES), 1264.

12 IV

$C_{12}H_4O_7N_3Cl_3$ 2:4:4′-Trichloro-5:2′:5′-trinitrodiphenyl ether (GROVES, TURNER, and SHARP), 521.

$C_{12}H_5O_3NCl_4$ 4:5:2′:4′-Tetrachloro-2-nitrodiphenyl ether (GROVES, TURNER, and SHARP), 523.

$C_{12}H_5O_5N_2Cl_3$ Trichlorodinitrodiphenyl ethers (GROVES, TURNER, and SHARP), 520.

$C_{12}H_5O_7N_3Cl_2$ 2:4-Dichloro-5:2′:4′-trinitrodiphenyl ether (GROVES, TURNER, and SHARP), 518.

$C_{12}H_5NBr_5As$ Pentabromo-5:10-dihydrophenarsazine (ELSON, GIBSON, and JOHNSON), 1087.

$C_{12}H_6O_3NCl_3$ Trichloronitrodiphenyl ethers (GROVES, TURNER, and SHARP), 520.

$C_{12}H_6O_5N_2Cl_2$ 2:4-Dichloro-2′:4′-dinitrodiphenyl ether (GROVES, TURNER, and SHARP), 518.

$C_{12}H_7ONCl_4$ 4:5:2′:4′-Tetrachloro-2-aminodiphenyl ether (GROVES, TURNER, and SHARP), 524.

$C_{12}H_7O_3NCl_2$ 4:5-Dichloro-2-nitrodiphenyl ether (GROVES, TURNER, and SHARP), 523.

$C_{12}H_7O_3NBr_2$ Dibromonitrodiphenyl ethers (SCARBOROUGH), 2365.

$C_{12}H_8O_2Br_2As_2$ 3:3′-Dibromo-4:4′-dihydroxyarsenobenzene (HAYTHORNTHWAITE), 1014.

$C_{12}H_8O_3NCl$ 4′-Chloro-3-nitrodiphenyl ether (SCARBOROUGH), 2365.

$C_{12}H_8O_3NBr$ 4′-Bromo-3-nitrodiphenyl ether (SCARBOROUGH), 2366.

$C_{12}H_8O_3NI$ 4-Iodo-4′-nitrodiphenyl ether (SCARBOROUGH), 2364.

$C_{12}H_8O_3N_2Br_2$ 2:4-Dibromo-3′-nitro-4′-aminodiphenyl ether (SCARBOROUGH), 2367.

$C_{12}H_8O_6N_4S$ *m*-Nitrobenzenesulphon-*o'p'*-dinitroanilide (BELL), 2789.

$C_{12}H_9ONCl_2$ 4:4'-Dichloro-2-aminodiphenyl ether (GROVES, TURNER, and SHARP), 519.

$C_{12}H_9ON_2Cl_3$ 2:4:4'-Trichloro-5:2'-diaminodiphenyl ether (GROVES, TURNER, and SHARP), 521.

$C_{12}H_9OCl_2I$ 4-Iododiphenyl ether dichloride (SCARBOROUGH), 2367.

$C_{12}H_9O_3N_2Cl$ 4'-Chloro-3-nitro-4-aminodiphenyl ether (SCARBOROUGH), 2365.

$C_{12}H_9O_3N_2Br$ 4'-Bromo-3-nitro-4-aminodiphenyl ether (SCARBOROUGH), 2366.

$C_{12}H_9O_3N_2I$ 4'-Iodo-3-nitro-4-aminodiphenyl ether (SCARBOROUGH), 2366.

$C_{12}H_9O_4N_2Cl$ Ethyl hydrogen 6-chloroquinoxaline-2:3-dicarboxylate (CHATTAWAY and HUMPHREY), 650.

$C_{12}H_9O_4N_2Br$ Ethyl hydrogen 6-bromoquinoxaline-2:3-dicarboxylate (CHATTAWAY and HUMPHREY), 650.

$C_{12}H_9O_4N_2Br_3$ Substance, formed in preparation of 3-bromo-2-nitrotoluene (ELSON, GIBSON, and JOHNSON), 2741.

$C_{12}H_9O_6N_3S$ *m*-Nitrobenzenesulphonnitroanilides (BELL), 2788.

$C_{12}H_9NClAs$ 10-Chloro-5:10-dihydrophenarsazine (GIBSON and JOHNSON), 767, 1229, 1473, 2743; (ELSON, GIBSON, and JOHNSON), 1080.

$C_{12}H_{10}ONI$ 4-Iodo-4'-aminodiphenyl ether (SCARBOROUGH), 2366.

$C_{12}H_{10}O_2Cl_2Si$ Diphenoxydichlorosilicane (THOMPSON and KIPPING), 1177.

$C_{12}H_{10}O_3N_3As$ *N*-Phenylbenztriazole-5-arsinic acid (BARBER), 474.

$C_{12}H_{10}O_4N_3As$ 4'-Hydroxy-1-phenyl-1:2:3-benztriazole-5-arsinic acid (BARBER), 474.

$C_{12}H_{10}N_2Br_2As_2$ Dibromodiaminoarsenobenzenes (HAYTHORNTHWAITE), 1014.

$C_{12}H_{11}O_5N_2As$ 2-Nitrodiphenylamine-4-arsinic acid (BARBER), 473.

$C_{12}H_{11}O_6N_2As$ 2-Nitro-4'-hydroxydiphenylamine-4-arsinic acid (BARBER), 474.

$C_{12}H_{12}O_4N_2As$ 2-Amino-4'-hydroxydiphenylamine-4-arsinic acid (BARBER), 474.

$C_{12}H_{12}O_8N_2S_2$ 4:4'-Diaminodiphenylene dihydrogen 3:3'-disulphate (BURKHARDT and WOOD), 150.

$C_{12}H_{13}O_3N_2As$ 2-Aminodiphenylamine-4-arsinic acid, and its hydrochloride (BARBER), 473.

$C_{12}H_{13}O_4NS$ 2-Phenyliminomethyl*cyclo*pentanone-4'-sulphonic acid (BLOUNT, PERKIN, and PLANT), 1986.

$C_{12}H_{13}O_4N_2Cl$ 4-Chloro-2:5-dinitrophenyl*cyclo*hexane (MAYES and TURNER), 505.

$C_{12}H_{14}ON_2S$ 1-Acetylimino-2:3:5-trimethyl-1:2-dihydrobenzthiazole (HUNTER and PRIDE), 945.

$C_{12}H_{14}O_2NCl$ 4-Chloro-2-nitrophenyl*cyclo*hexane (MAYES and TURNER), 505.

$C_{12}H_{14}O_3N_2As$ 2:4'-Diaminodiphenylamine-4-arsinic acid (BARBER), 475.

$C_{12}H_{14}O_4N_4Cu$ Dianilinocupric nitrite (KING), 2597.

$C_{12}H_{15}ON_2Cl$ γ-Aminopropylquinolone hydrochlorides (SESHADRI), 2954.

$C_{12}H_{15}O_2N_2Cl$ 1-β-Aminoethyl-6-methoxy-2-quinolone hydrochloride (SESHADRI), 2956.

1-γ-Aminopropyl-6-hydroxy-2-quinolone hydrochloride (SESHADRI), 2958.

$C_{12}H_{16}ONCl$ γ-Chloro*iso*hexoic anilide (LINSTEAD), 2509.

$C_{12}H_{16}ON_2Cl_2$ β-Aminoethyl-6-methoxyquinolinium chloride hydrochloride (SESHADRI), 2955.

γ-Aminopropyl-6-hydroxyquinolinium chloride hydrochloride (SESHADRI), 2957.

$C_{12}H_{16}O_2NBr$ β-3-Bromo-4-methoxy-2:5-dimethylphenylpropionamide (CLEMO, HAWORTH, and WALTON), 2378.

$C_{12}H_{16}O_4N_2S$ 1-*o*-Nitro-*p*-toluenesulphonylpiperidine (GROVES, TURNER, and SHARP), 517.

$C_{12}H_{17}ON_2Cl_2$ 8-6-Aminoethylamino-6-methoxyquinoline dihydrochloride (BALDWIN), 2962.

$C_{12}H_{17}OIS$ 4-Phenyl-1-methylpenthian-4-olsulphonium α-iodide (BENNETT and WADDINGTON), 2837.

$C_{12}H_{17}O_2NS$ 1-*p*-Toluenesulphonylpiperidine (GROVES, TURNER, and SHARP), 517.

$C_{12}H_{18}O_4N_2S$ *N*-Toluenesulphonyl-*N'*-carbethoxyethylenediamine (MOORE, BOYLE, and THORN), 50.

$C_{12}H_{18}O_5NAs$ *dl*-*N*-*o*-Tolylalanine-5-arsinic acid ethyl ester (GIBSON and LEVIN), 2760.

$C_{12}H_{20}ONI$ α-Methoxyphenylethyldimethylamine methiodides (E. and E. STEDMAN), 612.

$C_{12}H_{23}NCl_2$ Chloromethyl-lupinine methiodides (CLEMO and RAPER), 1934.

$C_{12}H_{28}O_8P_2Ba$ Barium di-*n*-propyl phosphate (PLIMMER and BURCH), 295.

12 V

$C_{12}H_6O_2NBr_4As$ Tetrabromophenarsazinic acid (ELSON, GIBSON, and JOHNSON), 1088.

$C_{12}H_8O_2ClBrS$ 4-Chloro-4'-bromodiphenylsulphone (GROVES and TURNER), 510.

$C_{12}H_8O_3NCl_2I$ 4-Iodo-4'-nitrodiphenyl ether iodochloride (SCARBOROUGH), 2364.

$C_{12}H_8O_8N_2S_2K_2$ Potassium azobenzene 2:2'-disulphate (BURKHARDT and WOOD), 150.

$C_{12}H_9O_6N_2SK$ Potassium dihydroxybenzeneazophenyl sulphate (BURKHARDT and WOOD), 147.

$C_{12}H_{10}O_3N_2Br_2As_2$ 5:5'-Dibromo-3:3'-diamino-4:4'-dihydroxyarsenobenzene (HAYTHORNTHWAITE), 1014.

$C_{12}H_{10}O_4N_2S_2As$ Di(carboxymethyl) 5-acetamido-2-hydroxyphenylthioarsinite (BARBER), 1023.

$C_{12}H_{10}O_6N_2S_2K_2$ Potassium 4:4'-diaminodiphenylene 3:3'-disulphate (BURKHARDT and WOOD), 151.

$C_{12}H_{15}O_5N_2S_2As$ Di(carboxymethyl) 4-carbamylmethylaminophenylthioarsinite (BARBER), 1023.

$C_{12}H_{15}O_6N_2S_2As$ Di(β-carboxy-β-aminomethyl) 3-amino-4-hydroxyphenylthioarsenite (BARBER), 1023.

12 VI

$C_{12}H_6O_6N_2ClBrS$ 4-Chloro-4'-bromo-3:3'-dinitrodiphenylsulphone (GROVES and TURNER), 511.

C_{13} Group.

$C_{13}H_{10}$ Fluorene, condensation of acetone with (MAITLAND and TUCKER), 2559.

$C_{13}H_{22}$ 3-*n*-Propyl-$\Delta^{1:3}$-menthadiene (READ and WATTERS), 2170.

13 II

$C_{13}H_8O_3$ 2':4'-Dihydroxydiphenyl-2-carboxylic lactone (HURTLEY), 1872.

$C_{13}H_{14}O_4$ 4-Acetoxy-2:5-dimethylcinnamic acid (CLEMO, HAWORTH, and PERKIN), 2377.

β-4-Methoxy-2:5-dimethylbenzoylacrylic acid (CLEMO, HAWORTH, and WALTON), 2382.

$C_{13}H_{16}O_2$ *p-cyclo*Hexylbenzoic acid, and its sodium salt (MAYES and TURNER), 507.

2-Hydroxystyryl *iso*butyl ketone (HEILBRON and IRVING), 941.

1-Keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthalene (CLEMO, HAWORTH, and WALTON), 2381.

$C_{13}H_{16}O_4$ β-4-Methoxy-2:5-dimethylbenzoylpropionic acid (CLEMO, HAWORTH, and WALTON), 2381.

$C_{13}H_{18}O_3$ 2-Carboxy-*trans*-decahydronaphthalene-2-acetic anhydrides (RAO), 1966.

γ-4-Methoxy-2:5-dimethylphenylbutyric acid (CLEMO, HAWORTH, and WALTON), 2381.

$C_{13}H_{18}O_4$ Ethyl β-3:4-dimethoxyphenylpropionate (CHILD and PYMAN), 2014.
$C_{13}H_{18}O_7$ β-*p*-Anisylgalactoside (ROBERTSON), 1822.
$C_{13}H_{18}O_9$ 2:3-Diacetyl-α- and -β-ethylglucofuranoside 5:6-carbonates (HAWORTH and PORTER), 2803.
$C_{13}H_{19}N$ α-*trans*-Decahydronaphthylidene-2-propionitrile (RAO), 1965.
$C_{13}H_{20}O_4$ 2-Carboxy-*trans*-decahydronaphthalene-2-acetic acids (RAO), 1965.
$C_{13}H_{21}P$ *p*-Tolyldi-*n*-propylphosphine (DAVIES, PEARSE, and JONES), 1264.

13 III

$C_{13}H_8OCl_2$ 3:5-Dichlorobenzophenone (WATERS), 2108.
$C_{13}H_8OBr_2$ 3:5-Dibromobenzophenone (WATERS), 2109.
$C_{13}H_8OI_2$ 3:5-Di-iodobenzophenone (WATERS), 2111.
$C_{13}H_8O_5N_2$ 3:5-Dinitrobenzophenone (WATERS), 2110.
$C_{13}H_8O_4N_2$ Diphenyl-4-carboxylic acid (GULL and TURNER), 498.
$C_{13}H_9O_4N_3$ α-Dinitrostyrylpyridine (BENNETT and PRATT), 1467.
$C_{13}H_9O_5N_3$ Dinitrobenzylidene-*p*-aminophenol (BENNETT and PRATT), 1466.
$C_{13}H_9NS_2$ 2-Thio-1-phenyl-1:2-dihydrobenz*iso*thiazole (MCCLELLAND, WARREN, and JACKSON), 1585.
$C_{13}H_9BrMg$ Magnesium 9-fluorenyl bromide, action of, on acetone and diacetone alcohol (MAITLAND and TUCKER), 2559.
$C_{13}H_{10}O_3N_2$ 3-Nitro-5-aminobenzophenone (WATERS), 2110.
$C_{13}H_{10}N_2S$ *NN'*-1-Thiocarbonyl-2:2'-diaminodiphenyl (LE FÈVRE), 736.
$C_{13}H_{11}O_2N_3$ *p*-Hydroxybenzaldehyde *p*-nitrophenylhydrazone (HODGSON and COOPER), 234.
Nitroso-4-nitrophenylbenzylamine (REILLY, DRUMM, and CREEDON), 643.
$C_{13}H_{13}ON$ 9-Keto-5:6:7:8:9:10-hexahydrophenanthridine (BLOUNT, PERKIN, and PLANT), 1986.
$C_{13}H_{13}O_3N$ β-2-Carboxy-6-methoxyindole-3-propionic acid (BARRETT, PERKIN, and ROBINSON), 2945.
$C_{13}H_{14}O_2Br_2$ 2:6-Dibromo-1-keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthalene (CLEMO, HAWORTH, and WALTON), 2381.
$C_{13}H_{15}ON$ β-Methylsorbanilide (BURTON and INGOLD), 2029.
$C_{13}H_{15}O_2N$ *cyclo*Hexanone-2-carboxyanilide (BLOUNT, PERKIN, and PLANT), 1986.
$C_{13}H_{15}O_3N$ Methyl β-methoxyindole-3-propionates (BARRETT, PERKIN, and ROBINSON), 2944.
2-Oximino-1-keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthalene (CLEMO, HAWORTH, and WALTON), 2382.
$C_{13}H_{15}O_4Br$ α-Bromo-β-4-methoxy-2:5-dimethylbenzoylpropionic acid (CLEMO, HAWORTH, and WALTON), 2382.
$C_{13}H_{15}O_6N$ Glucofuranose 5:6-carbonate anilide (HAWORTH and PORTER), 2806.
$C_{13}H_{16}O_2N_2$ Methyl ethoxybenziminazole-2-propionate (CHATTERJEE), 2968.
$C_{13}H_{17}ON$ *n*-Hexenoic *p*-toluidides (ECCOTT and LINSTEAD), 2162.
$C_{13}H_{17}O_6N$ Tetra-acetyl *l*-xylononitrile (DEULOFEU), 2459.
$C_{13}H_{19}O_2N$ Acetyl-β-4-methoxy-2:5-dimethylphenylethylamine (CLEMO, HAWORTH, and WALTON), 2379.
2-Carboxy-*trans*-decahydronaphthalene-2-acetimides (RAO), 1966.
$C_{13}H_{19}O_3N$ Methyl β-4-methoxy-2:5-dimethylphenylethylcarbamate (CLEMO, HAWORTH, and WALTON), 2379.
$C_{13}H_{19}O_4N$ 2:3-Dimethyl xylose anilide (HAMPTON, HAWORTH, and HIRST), 1748.
$C_{13}H_{19}N_3Cl_2$ 8-γ-Aminopropylamino-6-methylquinoline dihydrochloride (BALDWIN), 2964.
$C_{13}H_{21}O_3N$ 2-Carboxy-*trans*-decahydronaphthalene-2-acetamic acid (RAO), 1967.

$C_{13}H_{21}O_5N_3$ *cyclo*Hexane-1-acetone-1-malonic acid semicarbazone (QUDRAT-I-KHUDA), 717.

$C_{13}H_{22}IP$ Phenylmethyldi-*n*-propylphosphonium iodide (DAVIES, PEARSE, and JONES), 1264.

$C_{13}H_{23}O_3N_3$ Methyl *cyclo*hexane-1-acetone-1-acetate semicarbazone (QUDRAT-I-KHUDA), 718.

$C_{13}H_{24}O_4N_2$ Ethyl 4-carbethoxypiperazino-γ-butyrate (MOORE, BOYLE, and THORN), 49.

$C_{13}H_{25}O_3N_3$ Ethyl γ-acetyl-$\beta\beta$-diethylbutyrate semicarbazone (QUDRAT-I-KHUDA), 1919.

$C_{13}H_{27}ON$ Triethyl-α-hydroxyallylamine, salts of (INGOLD and ROTHSTEIN), 13.

$C_{13}H_{30}IP$ Methyltri-*n*-butylphosphonium iodide (DAVIES and JONES), 34.

$C_{12}H_{31}OP$ Tri-*n*-propyl-*n*-butylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2351.

13 IV

$C_{13}H_4O_6N_2Cl_2$ 2:4-Dichloronitrophenyl *m*-nitrobenzoates (GROVES, TURNER, and SHARP), 521.

$C_{13}H_7O_4N_2Br_2$ Dinitrobenzylidene-3:5-dibromoaniline (BENNETT and PRATT), 1466.

$C_{13}H_8OClBr$ 4-Chloro-4′-bromobenzophenone (GROVES and TURNER), 509.

$C_{13}H_8O_2NCl$ 3-Chlorobenzoquinone-4-oxime benzoate (HODGSON and KERSHAW), 1556.

$C_{13}H_8O_3NI$ 5-Iodo-3-nitrobenzophenone (WATERS), 2110.

$C_{13}H_8O_4N_2Cl$ Dinitrobenzylidene-*m*-chloroaniline (BENNETT and PRATT), 1466.

$C_{13}H_8O_4N_2I$ Dinitrobenzylidene-*p*-iodoaniline (BENNETT and PRATT), 1466.

$C_{13}H_8O_4N_4S$ 5:4′-Dinitro-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 464.

$C_{13}H_8O_7N_2F$ Fluorodinitrohydroxybenzaldehyde *p*-nitrophenylhydrazones (HODGSON and NIXON), 1636.

$C_{13}H_8N_2Cl_2S$ 5:4′-Dichloro-1-anilinobenzthiazole, and its hydrobromide (DYSON, HUNTER, and SOYKA), 463.

$C_{13}H_8N_2Br_2S$ 5:4′-Dibromo-1-anilinobenzthiazole and its hydrobromide (DYSON, HUNTER, and SOYKA), 460.

$C_{13}H_8N_2Br_8S$ 5:4′-Dibromo-1-anilinobenzthiazole hexabromide (DYSON, HUNTER, and SOYKA), 462.

$C_{13}H_8N_2I_2S$ 5:4′-Di-iodo-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 464.

$C_{13}H_8N_2F_2S$ 5:4′-Difluoro-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 464.

$C_{13}H_9ONCl_2$ 3:5-Dichlorobenzanilide (WATERS), 2108.

3:5-Dichlorobenzophenone oximes (WATERS), 2108.

$C_{13}H_9ONI_2$ 3:5-Di-iodo-4-aminobenzophenone (WATERS), 2110.

$C_{13}H_9O_5N_4F$ Fluorodinitrohydroxybenzaldehyde phenylhydrazones (HODGSON and NIXON), 1636.

Fluoronitrohydroxybenzaldehyde *p*-nitrophenylhydrazones (HODGSON and NIXON), 1636.

$C_{13}H_9N_2ClS$ 4′-Chloro-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 463.

$C_{13}H_9N_2BrS$ 4′-Bromo-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 462.

$C_{13}H_9N_2Br_7S$ *s*-Di-*p*-bromophenylthiocarbamide (DYSON, HUNTER, and SOYKA), 460.

$C_{13}H_{10}ONBr$ 3-Bromo-4-aminobenzophenone (WATERS), 2109.

$C_{13}H_{10}ONI$ 3-Iodo-4-aminobenzophenone (WATERS), 2109.

$C_{13}H_{10}ON_2As_2$ *pp′*-Arseno(diphenylcarbamide) (EVERETT), 676.

$C_{13}H_{10}O_3N_2F$ Fluorohydroxybenzaldehyde *p*-nitrophenylhydrazones (HODGSON and NIXON), 1635.

Fluoronitrohydroxybenzaldehyde phenylhydrazones (HODGSON and NIXON), 1636.

$C_{13}H_{10}O_3Cl_2S$ 2:4-Dichlorophenyl *p*-toluenesulphonate (GROVES, TURNER, and SHARP), 516.

$C_{13}H_{10}N_2Br_6S$ 1-Anilinobenzthiazole hexabromide (DYSON, HUNTER, and SOYKA), 462.

$C_{13}H_{10}N_2SAs_2$ *pp'*-Arseno(diphenylcarbamide) (EVERETT), 675.

$C_{13}H_{10}N_2S_4As_2$ Diphenylthiocarbamide-*pp'*-arsenic sesquisulphide (EVERETT), 675.

$C_{13}H_{11}O_3N_2As$ 1-Phenylbenziminazole-5-arsinic acid (PHILLIPS), 2823.

$C_{13}H_{11}O_4N_2As$ Nitromethylphenarsazinic acids (GIBSON and JOHNSON), 1247.

$C_{13}H_{11}O_6N_2S$ *p*-Toluenesulphon-*op'*-dinitroanilide (BELL), 2789.

$C_{13}H_{11}O_7N_2As$ 2'-Carboxy-2-nitrodiphenylamine-4-arsinic acid (BARBER), 475.

$C_{13}H_{11}NClAs$ 10-Chloro-3-methyl-5:10-dihydrophenarsazine (GIBSON and JOHNSON), 779.

10-Chloro-4-methyl-5:10-dihydrophenarsazine (GIBSON and JOHNSON), 2748.

$C_{13}H_{11}NBrAs$ 10-Bromo-3-methyl-5:10-dihydrophenarsazine (GIBSON and JOHNSON), 781.

$C_{13}H_{12}O_2NAs$ Methylphenarsazinic acids, and their hydrochlorides (GIBSON and JOHNSON), 780.

$C_{13}H_{13}NIS$ Methylnaphthathiazole methiodides (HAMER), 2601.

$C_{13}H_{13}N_2ClAs$ 10-Chloro-4-amino-7-methyl-5:10-dihydrophenarsazine, and its hydrochloride (GIBSON and JOHNSON), 1248.

$C_{13}H_{13}O_2N_2As$ Aminomethylphenarsazinic acids (GIBSON and JOHNSON), 1248.

$C_{13}H_{13}O_5N_2As$ Nitromethyldiphenylamine-6'-arsinic acids (GIBSON and JOHNSON), 1246; (ELSON, GIBSON, and JOHNSON), 2742.

$C_{13}H_{14}O_2NBr$ 2-Bromo-*n*-amylphthalimide (BALDWIN), 2963.

$C_{13}H_{14}O_5NAs$ 3-Methyldiphenylaminearsinic acids (GIBSON and JOHNSON), 779.

$C_{13}H_{17}O_2N_2Cl$ 1-γ-Aminopropyl-6-methoxy-2-quinolone hydrochloride (SESHADRI), 2957.

$C_{13}H_{18}ON_2Cl_2$ γ-Aminopropyl-6-methoxyquinolinium chloride hydrochloride (SESHADRI), 2957.

$C_{13}H_{19}ONS$ Methyl ε-hydroxyamyl sulphide phenylurethane (BENNETT and HEATHCOAT), 274.

$C_{13}H_{19}ON_3Cl_2$ 8-γ-Aminopropylamino-6-methoxyquinoline dihydrochloride (BALDWIN), 2962.

$C_{13}H_{19}O_2NS$ Ethyl δ-hydroxybutyl sulphide phenylurethane (BENNETT and HEATHCOAT), 273.

$C_{13}H_{19}O_4N_3S$ 5-Dimethylamino-1:2-dimethylbenziminazole methosulphate (PHILLIPS), 2825.

$C_{13}H_{19}O_5N_2Br$ 3:5-Dimethylxylonic acid *p*-bromophenylhydrazide (HAMPTON, HAWORTH, and HIRST), 1749.

$C_{13}H_{21}O_3N_2I$ α-Hydroxyphenylethyldimethylamines, methylurethane methiodides of (E. and E. STEDMAN), 616.

13 V

$C_{13}H_5O_5N_4BrF$ Fluorobromonitrohydroxybenzaldehyde *p*-nitrophenylhydrazones (HODGSON and NIXON), 1637.

$C_{13}H_9O_7N_2Cl_2S$ 2:4-Dichloro-5-nitrophenyl *o*-nitro-*p*-toluenesulphonate (GROVES, TURNER, and SHARP), 516.

$C_{13}H_9ONBrI$ 3-Bromo-5-iodo-4-aminobenzophenone (WATERS), 2111.

$C_{13}H_9O_3N_2BrF$ Fluorobromohydroxybenzaldehydes *p*-nitrophenylhydrazones (HODGSON and NIXON), 1637.

Fluorobromonitrohydroxybenzaldehyde phenylhydrazones (HODGSON and NIXON), 1637.

$C_{13}H_9O_5NCl_2S$ 2:4-Dichloro-3-nitrophenyl *p*-toluenesulphonate (GROVES, TURNER, and SHARP), 522.

$C_{13}H_{10}ON_2BrF$ Fluorobromohydroxybenzaldehyde phenylhydrazones (HODGSON and NIXON), 1637.

$C_{13}H_{10}O_2N_2ClAs$ 10-Chloronitromethyl-5:10-dihydrophenarsazines (GIBSON and JOHNSON), 1247; (ELSON, GIBSON, and JOHNSON), 2742.

$C_{13}H_{11}O_2N_2Cl_2As$ Nitromethyldiphenylamine-6′-dichloroarsines (GIBSON and JOHNSON), 1247; (ELSON, GIBSON, and JOHNSON), 2742.

$C_{13}H_{10}O_2N_2BrAs$ 10-Bromonitromethyl-5:10-dihydrophenarsazines (GIBSON and JOHNSON), 1249.

$C_{13}H_{11}O_2N_2Br_2As$ Nitromethyldiphenylamine-6′-dibromoarsines (GIBSON and JOHNSON), 1255.

$C_{13}H_{11}O_5NCl_2S$ 2:4-Dichloro-3-aminophenyl *p*-toluenesulphonate (GROVES, TURNER, and SHARP), 522.

$C_{13}H_{12}O_5N_2Cl_2S$ 2:4-Dichloro-5-aminophenyl *o*-amino-*p*-toluenesulphonate (GROVES, TURNER, and SHARP), 516.

$C_{13}H_{14}O_6N_2SAs_2$ Diphenylthiocarbamide-*pp*′-diarsinic acid (EVERETT), 676.

C_{14} Group.

$C_{14}H_{10}O_3$ 2′-Hydroxy-4′-methoxydiphenyl-2-carboxylic lactone (HURTLEY), 1873.

$C_{14}H_{10}O_4$ Benzoylhydroperoxide, oxidation of α-terpinene with (ELSON, GIBSON, and SIMONSEN), 2732.

7-Hydroxy-1-methoxyxanthone (ROBERTSON and WATERS), 2243.

$C_{14}H_{10}N_2$ 1-Phenylphthalazine (AGGARWAL, DARBARI, and RÂY), 1945.

$C_{14}H_{12}O_3$ 2:5-Dihydroxyphenyl benzyl ketone (BAKER and EASTWOOD), 2905.

$C_{14}H_{14}O_3$ 2-Hydroxy-4-methoxydiphenylmethane (SHORT and STEWART), 559.

$C_{14}H_{14}N_6$ 3-Ethyl-1:2:4-triazole-5-azo-β-naphthylamine (REILLY and MADDEN), 816.

$C_{14}H_{15}N$ *o*-Tolyltolylamines (GIBSON and JOHNSON), 2748.

$C_{14}H_{16}O_3$ γ-Benzylidene-α-*iso*propylacetoacetic acid (HEILBRON and IRVING), 941.

$C_{14}H_{16}O_6$ Ethyl *o*-carboxyphenylmalonate (HURTLEY), 1872.

$C_{14}H_{16}O_7$ 3:6-Dicarbethoxy-Δ^3-tetrahydrophthalic anhydride (FARMER and WARREN), 904.

$C_{14}H_{18}O_3$ Norsantonous acid (CLEMO, HAWORTH, and WALTON), 2384.

$C_{14}H_{18}O_5$ β-4-Methoxy-2:5-dimethylphenylethylmalonic acid (CLEMO, HAWORTH, and WALTON), 2380.

$C_{14}H_{20}O_3$ Decahydronaphthalene-2:2-diacetic anhydrides (RAO), 1962, 1968.

$C_{14}H_{23}P$ Phenyldi-*n*-butylphosphine (DAVIES and JONES), 34.

Phenyldi*iso*butylphosphine (DAVIES, PEARSE, and JONES), 1265.

$C_{14}H_{24}O_4$ Decahydronaphthalene-2:2-diacetic acids (RAO), 1962, 1968.

14 III

$C_{14}H_6O_3Br_2$ 1:3-Dibromo-2-hydroxyanthraquinone (HARDACRE and PERKIN), 185.

$C_{14}H_7O_3Br$ 1-Bromo-2-hydroxyanthraquinone (HARDACRE and PERKIN), 186.

$C_{14}H_7O_3I$ 3-Iodo-2-hydroxyanthraquinone (HARDACRE and PERKIN), 188.

$C_{14}H_8O_4N_2$ Dinitrophenanthrene (CALLOW and GULLAND), 2425.

$C_{14}H_9O_3N$ 3-Amino-2-hydroxyanthraquinone (HARDACRE and PERKIN), 189.

$C_{14}H_9O_3N_3$ Nitro-1-phenylphthalazine (AGGARWAL, DARBARI, and RÂY), 1945; (RÂY), 2661.

$C_{14}H_9O_3Cl$ Chlorohydroxyanthranol (HARDACRE and PERKIN), 188.

$C_{14}H_9O_3I$ 2-Iodo-3-hydroxyanthranol (HARDACRE and PERKIN), 190.

$C_{14}H_9O_3F$ 2-Fluoro-4-hydroxybenzaldehyde benzoate (HODGSON and NIXON), 1635.

$C_{14}H_5NS$ Thionaphthindole (MCCLELLAND), 1588.

$C_{14}H_{10}O_2S$ 2-Methoxythioxanthone, and its perchlorate (Roberts and Smiles), 869.

$C_{14}H_{10}O_3S$ Hydroxymethoxythioxanthones (Roberts and Smiles), 1325.

$C_{14}H_{10}O_4As_2$ Arsenopyrocatechol methylene ether (Balaban), 1090.

$C_{14}H_{10}O_5S$ 1-Hydroxy-4-methoxythioxanthone dioxide (Roberts and Smiles), 1325.

$C_{14}H_{11}OCl$ Desyl chloride, displacement of chlorine from (Ward), 1541.

$C_{14}H_{11}O_3N_3$ Benzaldehyde *p*-nitrobenzoylhydrazone (Dann and Davies), 1054.

m-Nitrobenzaldehyde benzoylhydrazone (Aggarwal, Darbari, and Rây), 1945.

$C_{14}H_{11}O_6N_3$ 1:6-Dinitroaceto-β-naphthalide (Bell), 2785.

$C_{14}H_{11}NS_2$ 2-Thio-1-benzyl-1:2-dihydrobenz*iso*thiazole (McClelland, Warren, and Jackson), 1585.

$C_{14}H_{12}ON_2$ Cyanophenylethylpyridones (Bardhan), 2229.

$C_{14}H_{12}O_3S$ 2′-Carboxy-4-methoxydiphenyl sulphide (Roberts and Smiles), 867.

$C_{14}H_{12}O_4N_2$ 3-Nitro-4-acetamidodiphenyl ether (Scarborough), 2366.

$C_{14}H_{13}ON_5$ 3-Ethyl-1:2:4-triazole-5-azo-β-naphthol (Reilly and Madden), 816.

$C_{14}H_{14}ON_2$ *s*-Benzoylbenzylhydrazine (Aggarwal, Darbari, and Rây), 1945.

$C_{14}H_{14}O_2Te$ Di-4-hydroxydi-2-methyldiphenyl telluride (Morgan and Burgess), 2219.

$C_{14}H_{14}O_2N_2$ *p*-Azoxyanisole, preparation of (Davies and Down), 586.

$C_{14}H_{14}O_4N_2$ Ethyl quinoxaline-2:3-dicarboxylate (Chattaway and Humphrey), 647.

p-Nitrobenzoyl derivative of 2-aminomethyl*cyclo*pentane-1-carboxyl-lactam (Menon and Simonsen), 305.

$C_{14}H_{14}Cl_2Si$ Di-*p*-tolylsilicon dichloride, preparation of (Steele and Kipping), 2546.

$C_{14}H_{14}TeI$ 1-Phenyl-*p*-tolylmethyltelluronium iodide, resolution of (Lowry and Gilbert), 2867.

$C_{14}H_{15}ON$ Diphenylhydroxyethylamines, optically active, and their salts (Read, Campbell, and Barker), 2305.

$C_{14}H_{15}ON_3$ 4-Amino-2-acetamidodiphenylamine (Phillips), 2822.

$C_{14}H_{15}O_2N$ ββ-Di-(4-hydroxyphenyl)ethylamine (Harington and McCartney), 895.

Ethyl dihydropentindole-8-carboxylate (Plant), 2497.

$C_{14}H_{16}O_5N_2$ Ethyl 10-nitro-9-hydroxytetrahydropentindole-8-carboxylate (Plant), 2497.

$C_{14}H_{17}O_4N$ *N*-β-Veratrylethylsuccinimide (Child and Pyman), 2015.

$C_{14}H_{17}O_5N$ γ-*o*-Carbethoxyaminobenzoylbutyric acid (Plant), 2498.

$C_{14}H_{19}ON_3$ 8-*n*-Butylamino-6-methoxyquinoline (Baldwin), 2961.

$C_{14}H_{18}O_2N_4$ Dimethylquinoxaline derivative of dimethylglyoxime (Henderson), 467.

$C_{14}H_{18}O_3N_2$ Ethyl 4-benzoylpiperazine-1-carboxylate (Moore, Boyle, and Thorn), 45.

$C_{14}H_{19}ON$ *p*-Acetylaminophenyl*cyclo*hexane (Mayes and Turner), 504.

$C_{14}H_{21}O_2N$ Decahydronaphthalene-2:2-diacetimides (Rao), 1962, 1968.

$C_{14}H_{24}IP$ *p*-Tolylmethyldi-*n*-propylphosphonium iodide (Davies, Pearse, and Jones), 1264.

$C_{14}H_{22}O_5N_2$ Trimethyl-γ-lyxonolactone phenylhydrazide (Haworth and Long), 349.

2:3:4-Trimethyl-δ-xylonic acid, phenylhydrazide of (Haworth and Long), 349.

$C_{14}H_{23}OP$ β-Phenylethyltriethylphosphonium hydroxide, and its picrate (Fenton and Ingold), 2353.

$C_{14}H_{33}IP$ Ethyltri-*n*-butylphosphonium iodide (Davies and Jones), 34.

14 IV

$C_{14}H_6O_4N_2Cl_2$ *N*-2:4-Dichloro-5-nitrophenylphthalimide (GROVES, TURNER, and SHARP), 518.

$C_{14}H_7O_2NCl_2$ *N*-2:4-Dichlorophenylphthalimide (GROVES, TURNER, and SHARP), 518.

$C_{14}H_8N_2S_2As_2$ *pp'*-Dithiocarbiminoarsenobenzene (EVERETT), 675.

$C_{14}H_8N_2S_5As_2$ *pp'*-Dithiocarbiminophenylarsenic sesquisulphide (EVERETT), 674.

$C_{14}H_7O_2ClS$ 1-Chloro-4-methoxythioxanthone (ROBERTS and SMILES), 869.

$C_{14}H_{10}O_2N_4As_2$ 5:5'-Arseno-(2:3-dihydrobenziminazolone) (EVERETT), 676.

$C_{14}H_{10}O_4N_2Br_2$ 2:4-Dibromo-3'-nitro-4'-acetamidodiphenyl ether (SCARBOROUGH), 2367.

$C_{14}H_{10}N_4S_2As_2$ 5:5'-Arseno-(2-thiolbenziminazole) (EVERETT), 676.

$C_{14}H_{11}O_2NBr_2$ 2:4-Dibromo-4'-acetamidodiphenyl ether (SCARBOROUGH), 2367.

$C_{14}H_{11}O_2NI_4$ *ββ*-Di-(3:5-di-iodo-4-hydroxyphenyl)ethylamine (HARINGTON and MCCARTNEY), 895.

$C_{14}H_{11}O_4N_2Cl$ 4'-Chloro-3-nitro-4-acetamidodiphenyl ether (SCARBOROUGH), 2365.

$C_{14}H_{11}O_4N_2Br$ 4'-Bromo-3-nitro-4-acetamidodiphenyl ether (SCARBOROUGH), 2365.

$C_{14}H_{11}O_4N_2I$ 4'-Iodo-3-nitro-4-acetamidodiphenyl ether (SCARBOROUGH), 2366.

$C_{14}H_{12}O_2NCl$ 4-Chloro-4'-acetamidodiphenyl ether (SCARBOROUGH), 2365.

$C_{14}H_{12}O_2NBr$ 4-Bromo-4'-acetamidodiphenyl ether (SCARBOROUGH), 2365.

$C_{14}H_{12}O_2NI$ 4-Iodo-4'-acetamidodiphenyl ether (SCARBOROUGH), 2366.

$C_{14}H_{12}O_2N_2Cl_2$ 3:3'-Dichloro-*p*-azoxyanisole (DAVIES and DOWN), 587.

$C_{14}H_{13}O_3N_2F$ Fluoromethoxybenzaldehyde *p*-nitrophenylhydrazones (HODGSON and NIXON), 1638.

$C_{14}H_{12}O_4N_2As_2$ 6:6'-Diaminoarsenopyrocatechol methylene ether (BALABAN), 1091.

$C_{14}H_{13}ON_2F$ 2-Fluoro-4-methoxybenzaldehyde phenylhydrazone (HODGSON and NIXON), 1639.

$C_{14}H_{13}O_3N_2As$ *N*-Phenyl-2-methylbenziminazole-5(6)-arsinic acid (BARBER), 474.

$C_{14}H_{13}O_4N_2Cl$ Ethyl 6-chloroquinoxaline-2:3-dicarboxylate (CHATTAWAY and HUMPHREY), 650.

$C_{14}H_{13}O_4N_2Br$ Ethyl 6-bromoquinoxaline-2:3-dicarboxylate (CHATTAWAY and HUMPHREY), 650.

$C_{14}H_{13}O_6N_2P$ Di-*p*-nitrodibenzylphosphinic acid (CHALLENGER and PETERS), 2616.

$C_{14}H_{13}O_6N_2As$ Di-*p*-nitrodibenzylarsinic acid (CHALLENGER and PETERS), 2618

$C_{14}H_{13}O_6N_4As$ Dinitro-2-acetamidodiphenylamine-4-arsinic acid (BARBER), 475.

$C_{14}H_{13}NClAs$ 10-Chlorodimethyl-5:10-dihydrophenarsazines (GIBSON and JOHNSON), 2749.

$C_{14}H_{13}NBrAs$ 10-Bromodimethyl-5:10-dihydrophenarsazines (GIBSON and JOHNSON), 2750.

$C_{14}H_{14}ONCl$ *β*-Phenoxyethyl-*p*-chloroaniline (PEACOCK, BHATTACHARYA, and RAO), 1927.

$C_{14}H_{14}O_2NAs$ Dimethylphenarsazinic acids (GIBSON and JOHNSON), 2749.

$C_{14}H_{14}O_5N_2As$ 2-Nitro-3'-acetamido-4'-hydroxydiphenylamine-4-arsinic acid (BARBER), 475.

$C_{14}H_{14}O_2Cl_2Te$ Di-*o*-hydroxyditolyl telluridichlorides (MORGAN and BURGESS), 2217.

$C_{14}H_{14}O_6N_2As$ 2-Nitro-4'-acetamidodiphenylamine-4-arsinic acid (BARBER), 475.

$C_{14}H_{14}NIS$ Methylnaphthathiazole ethiodides (HAMER), 2602.

$C_{14}H_{15}O_4N_2As$ 2-Acetamidodiphenylamine-4-arsinic acid (BARBER), 474.

$C_{14}H_{16}O_3NAs$ Dimethyldiphenylamine-6'-arsinic acids (GIBSON and JOHNSON), 2750.

$C_{14}H_{16}O_4N_2As$ 2-Amino-4′-acetamidodiphenylamine-4-arsinic acid (BARBER), 475.
$C_{14}H_{16}O_5N_2As$ 2-Amino-3′-acetamido-4′-hydroxydiphenylamine-4-arsinic acid (BARBER), 475.
$C_{14}H_{18}O_4N_2Cu$ Di-*p*-toluidinocupric nitrite (KING), 2597.
$C_{14}H_{20}O_4N_2S$ Ethyl 4-*p*-toluenesulphonylpiperazine-1-carboxylate (MOORE, BOYLE, and THORN), 46.
$C_{14}H_{21}ON_3Cl_2$ 8-γ-Aminopropylamino-6-ethoxyquinoline dihydrochloride (BALDWIN), 2964.

14 V

$C_{14}H_8O_2N_2S_2As_2$ 4:4′-Arseno-(1-thiobenzoxazolone) (EVERETT), 676.
$C_{14}H_{15}O_7N_2S_2As$ Di(carboxymethyl) 8-acetamido-3-hydroxy-1:4-benz*iso*oxazine-6-thioarsinite (BARBER), 1023.
$C_{14}H_{17}O_5N_4S_2As$ Di(carbamylmethyl) 8-acetamido-3-hydroxy-1:4-benz*iso*oxazine-6-thioarsinite (BARBER), 1023.
$C_{14}H_{19}O_5N_2S_2As$ Di(β-hydroxyethyl) 8-acetamido-3-hydroxy-1:4-benz*iso*oxazine-6-thioarsinite (BARBER), 1024.
$C_{14}H_{20}O_4NS_2As$ Di(carbethoxymethyl) 4-aminophenylthioarsenite (BARBER), 1022.
$C_{14}H_{20}O_8N_4SCu$ Benzoylhydrazine copper sulphate (AGGARWAL, DARBARI, and RÂY), 1945.

C_{15} Group.

$C_{15}H_{10}O_4$ 7:8-Dihydroxyflavone (VENKATARAMAN), 2222.
$C_{15}H_{10}O_5$ Anthragallol 1-methyl ether (PERKIN and STORY), 1417.
1-Hydroxy-7-acetoxyxanthone (ROBERTSON and WATERS), 2242.
$C_{15}H_{10}O_6$ 5:7:2′:4′-Tetrahydroxyflavone (ROBINSON and VENKATARAMAN), 66.
5:7:3′:4′-Tetrahydroxy-3-phenylcoumarin (BAKER), 1598.
$C_{15}H_{10}O_7$ Morin (+ H_2O), synthesis of (ROBINSON and VENKATARAMAN), 64.
$C_{15}H_{10}O_8$ Gossypetin, synthesis of (BAKER, NODZU, and ROBINSON), 74.
Quercetagetin, synthesis of (BAKER, NODZU, and ROBINSON), 74.
$C_{15}H_{12}O$ Methyl-9-anthrones (BARNETT and GOODWAY), 1757.
$C_{15}H_{14}O_3$ 4-Hydroxy-2-methoxyphenyl benzyl ketone (BAKER and ROBINSON), 161.
ω-*m*-Methoxyphenoxyacetophenone (BAKER, POLLARD, and ROBINSON), 1470.
$C_{15}H_{14}O_4$ 2:4-Dihydroxyphenyl *p*-methoxybenzyl ketone (BAKER and EASTWOOD), 2902.
2′:4′-Dimethoxydiphenyl-2-carboxylic acid (HURTLEY), 1873.
$C_{15}H_{15}N$ Dimethyl-9-fluorylamine, and its picrate (INGOLD and JESSOP), 2361.
$C_{15}H_{16}O$ *p*-Tolyl-*o*-tolylcarbinol (HATT), 1631.
$C_{15}H_{16}O_2$ γ-Phenoxy-α-phenyl*iso*propyl alcohol (BOYD and VINEALL), 1622.
$C_{15}H_{16}O_5$ γ-4-Methoxy-2:5-dimethylbenzoylpropane-αβ-dicarboxylic anhydride (CLEMO, HAWORTH, and WALTON), 2384.
$C_{15}H_{18}O_3$ Santonin, constitution of (CLEMO, HAWORTH, and WALTON), 2368.
$C_{15}H_{18}O_4$ 1-Keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthyl-2-acetic acid (CLEMO, HAWORTH, and WALTON), 2384.
$C_{15}H_{18}O_5$ γ-4-Methoxy-2:5-dimethylbenzoylpropane-αβ-dicarboxylic acid (CLEMO, HAWORTH, and WALTON), 2384.
$C_{15}H_{20}O_3$ 7-Methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthyl-2-acetic acid (CLEMO, HAWORTH, and WALTON), 2384.
dl-Santonous acid, synthesis of (CLEMO, HAWORTH, and WALTON), 2368.
$C_{15}H_{20}O_5$ β-4-Methoxy-2:5-dimethylphenylethylsuccinic acid (CLEMO, HAWORTH, and WALTON), 2384.
$C_{15}H_{22}O_2$ *d*-β-Octyl salicylate (RULE, MILES, and MACGILLIVRAY), 2279.

$C_{15}H_{24}O_5$ Ethyl *cyclo*pentane-1-acetone-1-malonate (QUDRAT-I-KHUDA), 719.
$C_{15}H_{25}Cl$ *iso*Clovene hydrochloride (HENDERSON, MCCRONE, and ROBERTSON), 1371.
$C_{15}H_{25}Br$ *iso*Clovene hydrobromide (HENDERSON, MCCRONE, and ROBERTSON), 1371.
$C_{15}H_{25}P$ *p*-Tolyldi-*n*-butylphosphine (DAVIES and JONES), 35.
p-Tolyldi*iso*butylphosphine (DAVIES, PEARSE, and JONES), 1265.
$C_{15}H_{26}O$ *iso*Clovene alcohol (HENDERSON, MCCRONE, and ROBERTSON), 1372.
$C_{15}H_{26}O_5$ Ethyl α-carboxy-γ-acetyl-ββ-diethylbutyrate (QUDRAT-I-KHUDA), 1919.
$C_{15}H_{28}O_2$ Acid, and its silver salt, from cutin (LEGG and WHEELER), 2454.
$C_{15}H_{28}N_2$ *N*-Piperidyl-lupinine (CLEMO and RAPER), 1938.
$C_{15}H_{31}Br$ Hexahydrofarnesyl bromide (HEILBRON and THOMPSON), 890.
$C_{15}H_{32}O$ Hexahydrofarnesol (HEILBRON and THOMPSON), 889.
$C_{15}H_{33}P$ Tri-*n*-amylphosphine (DAVIES, PEARSE, and JONES), 1265.
Tri*iso*amylphosphine (DAVIES, PEARSE, and JONES), 1267.
Tri-(*dl*-β-methylbutyl)phosphine (DAVIES, PEARSE, and JONES), 1266.

15 III

$C_{15}H_8O_3Br_2$ 1:3-Dibromo-2-methoxyanthraquinone (HARDACRE and PERKIN), 185.
$C_{15}H_8O_6N_4$ 2:4:4′-Trinitro-α-cyanostilbene (BENNETT and PRATT), 1468.
$C_{15}H_8N_4S$ 5:4′-Dicyano-1-anilinobenzthiazole, and its hydrobromide (DYSON, HUNTER, and SOYKA), 464.
$C_{15}H_9O_3Br$ 1-Bromo-2-methoxyanthraquinone (HARDACRE and PERKIN), 186.
$C_{15}H_9O_3I$ 3-Iodo-2-methoxyanthraquinone (HARDACRE and PERKIN), 188.
$C_{15}H_{10}O_2N_2$ 3:4-Dihydroxyquindoline, and its hydrochloride (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2938.
6:7-Methylenedioxy-1-phenylphthalazine (AGGARWAL, DARBARI, and RÂY), 1944.
$C_{15}H_{10}O_4N_4$ 2-Dinitrostyrylbenziminazole (BENNETT and PRATT), 1468.
$C_{15}H_{10}O_4S$ 1-Hydroxy-4-acetoxythioxanthone (ROBERTS and SMILES), 871.
$C_{15}H_{11}O_4N$ Piperonylideneaminobenzoic acids (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1674.
Salicylidene-*m*-nitroacetophenone (LE FÈVRE), 2774.
$C_{15}H_{12}ON_2$ Methoxyphenylphthalazines (AGGARWAL, DARBARI, and RÂY), 1944.
$C_{15}H_{12}O_3S$ Methoxymethylthioxanthones, and their salts (ROBERTS and SMILES), 869.
$C_{15}H_{12}O_3N_2$ Piperonaldehyde benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1944.
$C_{15}H_{12}O_3S$ Dimethoxythioxanthones, and their salts (ROBERTS and SMILES), 870, 1326.
$C_{15}H_{12}O_5N_4$ Dinitrobenzylidene-*p*-aminoacetanilide (BENNETT and PRATT), 1467.
$C_{15}H_{14}O_2N_2$ Anisaldehyde benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1944.
o-Methoxybenzaldehyde benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1945.
$C_{15}H_{14}O_3N_2$ *s*-Benzoyl-4:5-methylenedioxybenzylhydrazine (AGGARWAL, DARBARI, and RÂY), 1944.
$C_{15}H_{14}O_3S$ 2′-Carboxy-5-methoxy-2-methyldiphenyl sulphide (ROBERTS and SMILES), 868.
$C_{15}H_{14}O_4S$ 2′-Carboxy-3:4-dimethoxydiphenyl sulphide (ROBERTS and SMILES), 868.
$C_{15}H_{14}NCl$ *N*-2:4-Dimethylphenylbenziminochloride (GIBSON and JOHNSON), 2747.

$C_{15}H_{15}ON$ Benzylidene-*p*-methoxybenzylamine (INGOLD and SHOPPEE), 1202.
p-Methoxybenzylidenebenzylamine (INGOLD and SHOPPEE), 1202.
$C_{15}H_{15}O_2N$ α-Amino-ββ-diphenylpropionic acid (HARINGTON and MCCARTNEY), 896.
$C_{15}H_{15}O_4N$ α-Amino-ββ-di-(4-hydroxyphenyl)propionic acid (HARINGTON and MCCARTNEY), 894.
$C_{15}H_{16}O_2N_2$ *s*-Benzoylmethoxybenzylhydrazines (AGGARWAL, DARBARI, and RÂY), 1944.
$C_{15}H_{17}ON$ β-Phenoxyethyltoluidines (PEACOCK, BHATTACHARYA, and RAO), 1926.
$C_{15}H_{19}ON$ Δ^1-*cyclo*Heptenylacetanilide (HUGH, KON, and MITCHELL), 1438.
*cyclo*Heptylideneacetanilide (HUGH, KON, and MITCHELL), 1437.
α-Δ^1-*cyclo*Hexenylpropionanilide (KANDIAH and LINSTEAD), 2149.
$C_{15}H_{19}O_2N$ Ethyl 1-anilino-$\Delta^{1:2}$-*cyclo*hexene-2-carboxylate (BLOUNT, PERKIN, and PLANT), 1986.
$C_{15}H_{19}O_4Cl$ Ethyl α-chloro-β-4-methoxy-2:5-dimethylbenzoylpropionate (CLEMO, HAWORTH, and WALTON), 2383.
$C_{15}H_{19}O_4Br$ Ethyl α-bromo-β-4-methoxy-2:5-dimethylbenzoylpropionate (CLEMO, HAWORTH, and WALTON), 2382.
$C_{15}H_{20}ON_2$ 8-*n*-Butylamino-6-ethoxyquinoline (BALDWIN), 2962.
$C_{15}H_{20}O_5N_2$ Ethyl hydrogen α-ketoadipate *p*-methoxyphenylhydrazone (BARREIT, PERKIN, and ROBINSON), 2943.
$C_{15}H_{21}O_2N$ Ethyl *trans*-decahydro-β-naphthylidenecyanoacetate (RAO), 1963.
$C_{15}H_{22}ON_2$ Benzoyl-γ-2:3:5:6-tetramethylpiperazine (KIPPING), 2896.
$C_{15}H_{23}O_2N$ *l*-β-Octyl aminobenzoates (RULE, MILES, and MACGILLIVRAY), 2279.
l-sec.-β-Octyl anthranilate (RULE, MILES, and MACGILLIVRAY), 2278.
$C_{15}H_{24}ON_2$ Oxysparteine, and its salts (CLEMO and RAPER), 1939.
$C_{15}H_{24}O_5N_2$ *l*-Trimethyl rhamnonic acid phenylhydrazide (AVERY and HIRST), 2467.
$C_{15}H_{26}BrP$ Phenyltri-*n*-propylphosphonium bromide (DAVIES, PEARSE, and JONES), 1264.
$C_{15}H_{28}IP$ Phenylmethyldi*iso*butylphosphonium iodide (DAVIES, PEARSE, and JONES), 1265.
Phenylmethyldi-*n*-butylphosphonium iodide (DAVIES and JONES), 34.

15 IV

$C_{15}H_{10}O_4N_2S$ 1-Anilinobenzthiazole-5:4′-dicarboxylic acid (DYSON, HUNTER, and SOYKA), 465.
$C_{15}H_{10}O_7NCl$ Nitro-2-phenylbenzopyrylium perchlorates (LE FÈVRE), 2773.
$C_{15}H_{11}O_2NBr_2$ 3:5-Dibromo-4-acetamidobenzophenone (WATERS), 2109.
$C_{15}H_{11}O_4NI_4$ ββ-Di-(3:5-di-iodo-4-hydroxyphenyl)-α-aminopropionic acid (HARINGTON and MCCARTNEY), 894.
$C_{15}H_{12}O_2NBr$ 3-Bromo-4-acetamidobenzophenone (WATERS), 2109.
$C_{15}H_{15}O_4N_2As$ 1-Phenyl-2-α-hydroxyethylbenziminazole-5-arsinic acid (PHILLIPS), 2823.
$C_{15}H_{15}O_5N_3S$ Benzenesulphonyl-*m*-nitrobenzodimethylamidoxime (BRADY and PEAKIN), 2270.
$C_{15}H_{15}NClAs$ 10-Chlorotrimethyl-5:10-dihydrophenarsazines (GIBSON and JOHNSON), 2753.
$C_{15}H_{16}O_2NCl$ δ-Chlorobutyl-α-naphthylurethane (BENNETT and HEATHCOAT), 272.
$C_{15}H_{23}ON_3Cl_2$ 8-(2-Amino-*n*-amylamino)-6-methoxyquinoline dihydrochloride (BALDWIN), 2964.
$C_{15}H_{24}O_3N_2S$ *p*-Toluenesulphonyltetramethylpiperazines (KIPPING), 2895.

15 V

$C_{15}H_{10}ON_2Cl_2S$ Acetyl derivative of 5:4′-dichloro-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 463.

$C_{15}H_{10}ON_2Br_2S$ Acetyl derivative of 5:4′-dibromo-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 461.

$C_{15}H_{11}O_4NBr_2I_2$ 3′:5′-Dibromo-3:5-di-iodothyronine (HARINGTON and MCCARTNEY), 897.

$C_{15}H_{12}O_2N_2Br_2S$ Dibromo-5:4′-dimethoxy-1-anilinobenzthiazole (DYSON, HUNTER, and SOYKA), 465.

$C_{15}H_{17}O_2NClAs$ 2:4:7-Trimethylphenarsazinic acid hydrochloride (GIBSON and JOHNSON), 2753.

C_{16} Group.

$C_{16}H_{14}$ 3:9-Dimethylanthracene (BARNETT and GOODWAY), 1758.

Dimethylanthracenes (MORGAN and COULSON), 2210, 2212.

$C_{16}H_{16}$ 9-*iso*Propylfluorene (MAITLAND and TUCKER), 2564.

$C_{16}H_{20}$ 3-Phenyl-$\Delta^{1:3}$-menthadiene (READ and WATTERS), 2170.

16 II

$C_{16}H_8O_8$ Anthraquinone-2:7-dicarboxylic acid (MORGAN and COULSON), 2211.

$C_{16}H_{10}O_5$ 2-Acetylanthragallol (PERKIN and STORY), 1414.

1-Acetylpurpuroxanthin (PERKIN and STORY), 1415.

$C_{16}H_{12}O_2$ 2:7-Dimethylanthraquinone (MORGAN and COULSON), 2211.

$C_{16}H_{12}O_3$ 7-Methoxy*iso*flavone (BAKER, POLLARD, and ROBINSON), 1473.

$C_{16}H_{12}O_5$ 7-Acetoxy-1-methoxyxanthone (ROBERTSON and WATERS), 2243.

Anthragallol 1:2-dimethyl ether (PERKIN and STORY), 1410.

$C_{16}H_{12}O_6$ 2-Methylirigenol (BAKER and ROBINSON), 159.

$C_{16}H_{12}N_2$ 9-Phenanthrylaminoacetonitrile (CALLOW and GULLAND), 2425.

$C_{16}H_{12}Br_2$ 10-Bromo-9-bromomethylmethylanthracenes (BARNETT and GOODWAY), 1759.

$C_{16}H_{13}Br$ 9-Bromomethyl-2-methylanthracene (BARNETT and GOODWAY), 1759.

$C_{16}H_{14}O$ 2-Methyl-9-anthranyl methyl ether (BARNETT and GOODWAY), 1758.

$C_{16}H_{14}O_3$ 3:4′-Dimethylbenzophenone-6-carboxylic acid (MORGAN and COULSON), 2558.

$C_{16}H_{14}O_4$ 3-Hydroxy-7-methoxy*iso*flavanone (BAKER, POLLARD, and ROBINSON), 1472.

$C_{16}H_{14}O_6$ *O*-Benzoylsyringic acid (HEAP and ROBINSON), 70.

$C_{16}H_{14}N_2$ 2-Phenylnaphthylene-1:3-diamine, preparation and resolution of, and its salts (LESSLIE and TURNER), 1516.

$C_{16}H_{14}Br_2$ 9-Bromofluorenyldimethylcarbinyl bromide (MAITLAND and TUCKER), 2564.

$C_{16}H_{15}Br$ 9-Fluorenyldimethylcarbinyl bromide (MAITLAND and TUCKER), 2563.

$C_{16}H_{16}O$ Trimethylbenzophenones (MORGAN and COULSON), 2209.

$C_{16}H_{16}O_3$ 2- and 4-Hydroxy-2-methoxy-6-methylphenyl benzyl ketones (BAKER and ROBINSON), 161.

$C_{16}H_{16}O_4$ 3:4-Dihydroxy-7-methoxy*iso*flavane (BAKER, POLLARD, and ROBINSON), 1472.

Ethyl 4-phenyl-6-ethyl-α-pyrone-3-carboxylate (BARDHAN), 2229.

α-*m*-Methoxyphenoxymethylmandelic acid (BAKER, POLLARD, and ROBINSON), 1471.

$C_{16}H_{16}O_3$ α-1-Keto-7-methoxy-5:8-dimethyl-1:2:3:4-tetrahydronaphthyl-2-propionic lactone (CLEMO, HAWORTH, and WALTON), 2386.

$C_{16}H_{20}O_6$ δ-4-Methoxy-2:5-dimethylbenzoylbutane-βγ-dicarboxylic acid (CLEMO, HAWORTH, and WALTON), 2385.

$C_{16}H_{22}O_2$ 4-Methoxystyryl *n*-hexyl ketone (HEILBRON and IRVING), 935.
$C_{16}H_{22}O_5$ α-(β-4-Methoxy-2:5-dimethylphenylethyl)-α′-methylsuccinic acid (CLEMO, HAWORTH, and WALTON), 2385.
$C_{16}H_{26}O_4$ Methyl *trans*-decahydronaphthalene-2:2-diacetate (RAO), 1962.
$C_{16}H_{26}O_5$ Ethyl *cyclo*hexane-1-acetone-1-malonate (QUDRAT-I-KHUDA), 717.
$C_{16}H_{27}P$ Phenyldi-*n*-amylphosphine (DAVIES, PEARSE, and JONES), 1266.
Phenyldi*iso*amylphosphine (DAVIES, PEARSE, and JONES), 1267.
Phenyldi-(*dl*-β-methylbutyl)phosphine (DAVIES, PEARSE, and JONES), 1266.
$C_{16}H_{28}O_6$ β-*d*-Bornylgalactoside (ROBERTSON), 1822.
$C_{16}H_{28}N_2$ Methylsparteine, and its salts (CLEMO and RAPER), 1938.
$C_{16}H_{30}O_6$ 1-Menthylgalactoside (ROBERTSON), 1822.

16 III

$C_{16}H_8O_4Br_2$ 1:3-Dibromo-2-acetoxyanthraquinone (HARDACRE and PERKIN), 185.
$C_{16}H_9O_4N_3$ 10-Nitro-3:4-methylenedioxyquindoline (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2937.
$C_{16}H_9O_4Br$ 1-Bromo-2-acetoxyanthraquinone (HARDACRE and PERKIN), 186.
$C_{16}H_9O_4I$ 3-Iodo-2-acetoxyanthraquinone (HARDACRE and PERKIN), 188.
$C_{16}H_{10}O_2N_2$ 3:4-Methylenedioxyquindoline (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2936.
$C_{16}H_{10}O_4N_4$ Dinitrobenzylidene-6-aminoquinoline (BENNETT and PRATT), 1467.
$C_{16}H_{10}O_6N_2$ Acid, from oxidation of 3:4-methylenedioxyquindoline (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2936.
$C_{16}H_{11}ON$ 14-Keto-7:14-dihydrobenzo-β-quinindene (BLOUNT, PERKIN, and PLANT), 1983.
$C_{16}H_{11}O_6N$ 3-Nitroalizarin dimethyl ether (PERKIN and STORY), 1416.
$C_{16}H_{11}NBr_4$ Tetrabromophenyl-α-naphthylamine (ELSON, GIBSON, and JOHNSON), 1086.
$C_{16}H_{12}O_4S$ Acetoxymethoxythioxanthones (ROBERTS and SMILES), 1325.
$C_{16}H_{12}O_{11}S$ Methylmyricetinsulphonic acid (HEAP and ROBINSON), 70.
$C_{16}H_{13}O_4N$ 3-Aminoalizarin dimethyl ether (PERKIN and STORY), 1416.
$C_{16}H_{13}O_5Cl$ *O*-Benzoylsyringyl chloride (HEAP and ROBINSON), 71.
$C_{16}H_{14}O_2N_2$ 6:7-Dimethoxy-1-phenylphthalazine (AGGARWAL, DARBARI, and RÂY), 1942.
$C_{16}H_{14}O_4S$ 2:3:4-Trimethoxythioxanthone, and its salts (ROBERTS and SMILES), 872.
$C_{16}H_{15}O_3N$ α-*m*-Methoxyphenoxymethylmandelonitrile (BAKER, POLLARD, and ROBINSON), 1470.
$C_{16}H_{15}O_4N$ Ethyl quinaldinylacetoacetate (HAMMICK and DICKINSON), 215.
$C_{16}H_{15}O_4N_3$ Benzoyl-*m*-nitrobenzodimethylamidoxime (BRADY and PEAKIN), 2270.
$C_{16}H_{16}O_2N_4$ Quinoxaline-2:3-dicarboxy-*o*-phenylenediamide (CHATTAWAY and HUMPHREY), 647.
$C_{16}H_{16}O_3N_2$ Veratraldehyde benzoylhydrazone (AGGARWAL, DARBARI, and RÂY), 1942.
$C_{16}H_{16}O_4N_2$ Diacetyldihydroxybenzidine (BURKHARDT and WOOD), 152.
$C_{16}H_{17}ON$ 2:4:4′-Trimethylbenzophenoneoxime (MORGAN and COULSON), 2210.
$C_{16}H_{17}O_3N$ 3-Ethylidene-*cis*-Δ^4-tetrahydrophthalanilic acid (FARMER and WARREN), 908.
$C_{16}H_{17}O_4N$ α-*m*-Methoxyphenoxymethylmandelamide (BAKER, POLLARD, and ROBINSON), 1471.
$C_{16}H_{18}O_3N_2$ *s*-Benzoyl-3:4-dimethoxybenzylhydrazine (AGGARWAL, DARBARI, and RÂY), 1943.
$C_{16}H_{19}ON$ Fluoryl-9-trimethylammonium hydroxide, salts of (INGOLD and JESSOP), 2359.

$C_{16}H_{19}O_2N_3$ Decahydronaphthalene-2:2-dicyanoacet-ω-imides (Rao), 1961, 1967.
$C_{16}H_{20}O_8N_2$ Tetraethyl pyrazinetetracarboxylate (Chattaway and Humphrey), 651.
$C_{16}H_{20}N_2Te$ 4:4′-Tetramethyldiaminodiphenyl telluride (Morgan and Burstall), 1105.
$C_{16}H_{21}O_2N_3$ 5-Acetamido-8-*n*-butylamino-6-methoxyquinoline (Baldwin), 2961.
$C_{16}H_{23}ON_3$ Substance, from methyloxysparteine and cyanogen bromide (Clemo and Raper), 1940.
$C_{16}H_{23}O_2N$ Ethyl α-cyano-α-$\Delta^{2:3(1:2)}$-*trans*-decahydronaphthalene-2-propionate (Rao), 1964.
$C_{16}H_{23}O_4N_3$ αα′-Dicarbamyldecahydronaphthalene-2:2-diacet-ω-imides (Rao), 1961, 1967.
$C_{16}H_{26}ON_2$ Methyloxysparteines, and its salts (Clemo and Baker), 1939.
$C_{16}H_{26}O_6N_2$ *l*-Tetramethyl gluconophenylhydrazide (Haworth and Peat), 357.
$C_{16}H_{27}O_5N_3$ Ethyl *cyclo*pentane-1-acetone-1-malonate semicarbazone (Qudrat-i-Khuda), 719.
$C_{16}H_{28}BrP$ *p*-Tolyltri-*n*-propylphosphonium bromide (Davies, Pearse, and Jones), 1265.
$C_{16}H_{28}IP$ Phenylethyldi-*n*-butylphosphonium iodide (Davies and Jones), 34.
p-Tolylmethyldi-*n*-butylphosphonium iodide (Davies and Jones), 35.
p-Tolylmethyldi*iso*butylphosphonium iodide (Davies, Pearse, and Jones), 1265.
$C_{16}H_{29}O_5N_3$ Ethyl α-carboxy-γ-acetyl-ββ-diethylbutyrate semicarbazone (Qudrat-i-Khuda), 1919.
$C_{16}H_{35}O_4P$ Cetyl dihydrogen phosphate, and its metallic salts (Plimmer and Burch), 280.
$C_{16}H_{36}IP$ Methyltri*iso*amylphosphonium iodide (Davies, Pearse, and Jones), 1267.

16 IV

$C_{16}H_8O_2N_4Cl_2$ 6-Chloroquinoxaline-2:3-dicarboxy-*p*-chloro-*o*-phenylenediamide (Chattaway and Humphrey), 649.
$C_{16}H_8O_2N_4Br_2$ 6-Bromoquinoxaline-2:3-dicarboxy-*p*-bromo-*o*-phenylenediamide (Chattaway and Humphrey), 649.
$C_{16}H_9O_{10}N_5S$ *m*-Nitrobenzenesulphon-1:6:8-trinitro-β-naphthalide (Bell), 2786.
$C_{16}H_{10}O_8N_4S$ *m*-Nitrobenzenesulphon-1:6-dinitro-β-naphthalide (Bell), 2786.
$C_{16}H_{11}ONS$ *N*-Acetylthionaphthindole (McClelland), 1592.
$C_{16}H_{11}O_6N_3S$ *m*-Nitrobenzenesulphon-8-nitro-β-naphthalide (Bell), 2786.
$C_{16}H_{12}O_4N_2S$ *m*-Nitrobenzenesulphon-β-naphthalide (Bell), 2786.
$C_{16}H_{14}O_2N_2Br_2$ 5:5′-Dibromo-2:2′-diacetamidodiphenyl (Le Fèvre), 736.
$C_{16}H_{16}O_2N_2As_2$ 4:4′-Diacetamidoarsenobenzene (Haythornthwaite), 1014.
$C_{16}H_{16}ONCl$ *O*-Acetyl-1-*iso*diphenylhydroxyethylamine hydrochloride (Read, Campbell, and Barker), 2311.
$C_{16}H_{18}O_2NCl$ ε-Chloroamyl α-naphthylurethane (Bennett and Heathcoat), 273.
$C_{16}H_{18}O_5N_2As$ 2:4′-Diacetamidodiphenylamine-4-arsinic acid (Barber), 475.
$C_{16}H_{19}O_2N_4Cl$ Benzaldehyde-*p*-trimethylammonium chloride *p*-nitrophenylhydrazone (Hodgson and Cooper), 234.
$C_{16}H_{20}N_2Cl_2Te$ 4:4′-Tetramethyldiaminodiphenyl telluridichloride (Morgan and Burgess), 1104.
$C_{16}H_{20}N_2I_2Te$ 4:4′-Tetramethyldiaminodiphenyl telluridi-iodide (Morgan and Burgess), 1105.
$C_{16}H_{26}O_9NCl$ Tetra-acetyl glucosidyldimethylamide hydrochloride (Baker), 1209.

16 V

$C_{16}H_9O_9N_2S_2Na_3$ Sodium benzeneazo-3:6-disulpho-β-naphthyl sulphite (King), 607.

$C_{16}H_{10}O_6N_2S_2Na_2$ Sodium benzeneazo-6-sulpho-β-naphthyl sulphite (KING), 607.
$C_{16}H_{11}O_5N_2SK$ Potassium 2-hydroxynaphthaleneazophenyl sulphate (BURKHARD and WOOD), 147.
$C_{16}H_{14}O_2N_2Br_2As_2$ 2:2′-Dibromo-4:4′-diacetamidoarsenobenzene (HAYTHORNTHWAITE), 1014.
$C_{16}H_{14}O_4N_2Br_2As_2$ 5:5′-Dibromo-3:3′-diacetamido-4:4′-dihydroxyarsenobenzene (HAYTHORNTHWAITE), 1014.
$C_{16}H_{14}O_4N_3ClS$ Cinnamaldehyde 2-chloro-5-nitro-*p*-toluenesulphonhydrazone (DANN and DAVIES), 1053.
$C_{16}H_{21}O_7N_4S_2As$ Di-(β-carboxy-β-aminoethyl)-8-acetamido-3-hydroxy-1:4-benziso-oxazine-6-thioarsinite (BARBER), 1024.

C_{17} Group.

$C_{17}H_{16}$ 2:3:6-Trimethylanthracene (MORGAN and COULSON), 2551.

17 II

$C_{17}H_{10}O_6$ Substance, from oxidation of 2:3:6-trimethylanthraquinone (MORGAN and COULSON), 2556.
$C_{17}H_{12}O_5$ 7-Methoxy*iso*flavone-2-carboxylic acid (BAKER, POLLARD, and ROBINSON), 1473.
$C_{17}H_{12}O_6$ Acetylanthragallol 2-methyl ethers (PERKIN and STORY), 1409.
$C_{17}H_{12}N_2$ 2:3-(2′-Phenylpyrrolo)(4′:5′)-quinoline (ROBINSON), 2950.
$C_{17}H_{14}O_2$ Methyl-9-anthranyl acetates (BARNETT and GOODWAY), 1758.
2:3:6-Trimethylanthraquinone (MORGAN and COULSON), 2555.
$C_{17}H_{14}O_5$ Anthragallol trimethyl ether (PERKIN and STORY), 1410.
2-Ethylcarbonato-1-hydroxyanthrone (PERKIN and STORY), 1418.
$C_{17}H_{14}O_6$ 5:7-Dihydroxy-2′:4′-dimethoxyflavone (ROBINSON and VENKATARAMAN), 66.
5:7-Dihydroxy-3′:4′-dimethoxy-3-phenylcoumarin (BAKER), 1599.
$C_{17}H_{14}O_8$ Syringetin (HEAP and ROBINSON), 67.
$C_{17}H_{14}N_2$ 3-Styryl-2-methylquinoxaline (BENNETT and WILLIS), 267.
$C_{17}H_{16}O$ 2:3:6-Trimethyl-9-anthrone (MORGAN and COULSON), 2554.
$C_{17}H_{16}O_3$ 3:4:3′-Trimethylbenzophenone-6′-carboxylic acid (MORGAN and COULSON), 2558.
$C_{17}H_{18}O$ 2:4:5:4′-Tetramethylbenzophenone (MORGAN and COULSON), 2554.
$C_{17}H_{18}O_5$ Methyl α-*m*-methoxyphenoxymethylmandelate (BAKER, POLLARD, and ROBINSON), 1471.
$C_{17}H_{20}O_5$ Anhydrocatechin tetramethyl ether, preparation of (BAKER), 1596.
$C_{17}H_{24}O$ Styryl *n*-octyl ketone (HEILBRON and IRVING), 936.
$C_{17}H_{24}O_3$ *l*-Menthyl salicylate (RULE and MACGILLIVRAY), 405.
$C_{17}H_{28}O_4$ Ethyl 2-carboxy-*trans*-decahydronaphthalene-2-acetates (RAO), 1965.
$C_{17}H_{29}P$ *p*-Tolyldi-*n*-amyl phosphine (DAVIES, PEARSE, and JONES), 1266.
p-Tolyldi*iso*amylphosphine (DAVIES, PEARSE, and JONES), 1267.
p-Tolyldi-(*dl*-β-methyl)butylphosphine (DAVIES, PEARSE, and JONES), 1266.
$C_{17}H_{34}O_2$ 3:7:11-Trimethyltetradecoic acid (HEILBRON and THOMPSON), 892.

17 III

$C_{17}H_{12}O_5S$ Diacetoxythioxanthones (ROBERTS and SMILES), 871.
$C_{17}H_{14}ON_2$ 3-Benzamidoquinaldine (ROBINSON), 2950.
$C_{17}H_{14}O_5N_4$ 3-Nitro-5-diacetylaminobenzophenone (WATERS), 2110.
$C_{17}H_{15}O_4N$ Ethyl *o*-benzamidophenylglyoxylate (CALLOW and HOPE), 1197.
$C_{17}H_{16}N_2Cl$ Di-(*p*-cyanobenzyl)methylamine hydrochloride (BAKER), 1206.

$C_{17}H_{19}ON$ 2:4:5:4′-Tetramethylbenzophenone oxime (MORGAN and COULSON), 2554.

$C_{17}H_{20}O_2N_2$ Phenyl-3-nitrobenzyl-*n*-butylamine (REILLY, DRUMM, and CREEDON), 643.

$C_{17}H_{20}O_9S$ *p*-Toluenesulphonylglucose-acetone carbonate (HAWORTH and PORTER), 2801.

$C_{17}H_{21}O_5N$ Ethyl *β*-2-carbethoxymethoxyindole-3-propionates (BARRETT, PERKIN, and ROBINSON), 2944.

$C_{17}H_{23}O_4N_3$ 2:5-Dinitro-4-piperidinophenyl*cyclo*hexane (MAYES and TURNER), 505.

$C_{17}H_{25}O_2N$ *l*-Menthyl aminobenzoates (RULE and MACGILLIVRAY), 406.

$C_{17}H_{27}O_2N$ *d*-*β*-Octyl dimethylaminobenzoates (RULE, MILES, and MACGILLIVRAY), 2279.

$C_{17}H_{29}O_5N_3$ Ethyl *cyclo*hexane-1-acetone-1-malonate semicarbazone (QUDRAT-I-KHUDA), 717.

$C_{17}H_{36}IP$ Phenylmethyldi-*n*-amylphosphonium iodide (DAVIES, PEARSE, and JONES), 1266.

Phenylmethyldi*iso*amylphosphonium iodide (DAVIES, PEARSE, and JONES), 1267.

Phenylmethyldi-(*dl*-*p*-methylbutyl)phosphonium iodide (DAVIES, PEARSE, and JONES), 1266.

$C_{17}H_{34}N_2I$ *N*-Piperidyl-lupinine dimethiodide (CLEMO and RAPER), 1938.

$C_{17}H_{39}OP$ Tri-*n*-propyl-*n*-octylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2352.

17 IV

$C_{17}H_{13}O_2NBr_2$ 3:5-Dibromo-4-diacetylaminobenzophenone (WATERS), 2109.

$C_{17}H_{13}O_2NI_2$ 3:5-Di-iodo-4-diacetylaminobenzophenone (WATERS), 2110.

$C_{17}H_{13}O_6N_3S$ *p*-Toluenesulphon*di*nitro-*β*-naphthalides (BELL), 2786.

$C_{17}H_{14}O_4N_2S$ *p*-Toluenesulphonnitro-*β*-naphthalides (BELL), 2785.

17 V

$C_{17}H_8O_{11}N_2S_2Na_4$ Sodium *o*-carboxybenzeneazo-3:6-disulpho-*β*-naphthyl sulphite (KING), 608.

$C_{17}H_{13}O_2NBrI$ 3-Bromo-5-iodo-4-diacetamidobenzophenone (WATERS), 2111.

C_{18} Group.

$C_{18}H_{12}O_7$ 1:3-Diacetylpurpurin (PERKIN and STORY), 1415.

$C_{18}H_{14}O_4$ 3:9-Diacetoxyanthracene (HARDACRE and PERKIN), 187.

$C_{18}H_{14}O_6$ Acetylanthragallol 1:2-dimethyl ether (PERKIN and STORY), 1410.

Ethylcarbonato-1-benzylidenecoumaran-2-one (PERKIN and STORY), 1421.

$C_{18}H_{14}N_2$ Anhydro-2:3-(2′-phenylpyrrolo)(4′:5′)quinoline methohydroxide (ROBINSON), 2951.

$C_{18}H_{16}O_3$ 7-Methoxy-2:5-dimethyl*iso*flavone (BAKER and ROBINSON), 161.

$C_{18}H_{16}O_7$ Morin 3:2′:4′-trimethyl ether (ROBINSON and VENKATARAMAN), 63.

$C_{18}H_{16}O_8$ Myricetin 3′:4′:5′-trimethyl ether (HEAP and ROBINSON), 69.

$C_{18}H_{16}Si$ Triphenylsilicane (KIPPING and MURRAY), 364.

$C_{18}H_{18}O_4$ Diacetyl-*l*-*iso*hydrobenzoin (READ, CAMPBELL, and BARKER), 2314.

$C_{18}H_{18}O_5$ 2:4:6-Trimethoxyphenyl 2-hydroxystyryl ketone (CULLINANE and PHILPOTT), 1765.

$C_{18}H_{18}O_7$ 2:4-Dimethoxybenzoic anhydride (ROBINSON and VENKATARAMAN), 62.

$C_{18}H_{22}O_3$ Benzoin diethylacetal (WARD), 1550.

$C_{18}H_{22}O_8$ Tetraethyl 3:6-dicarboxyhexahydrophthalate (FARMER and WARREN), 906.

$C_{18}H_{30}O_4$ Ethyl decahydronaphthalene-2:2-diacetates (RAO), 1962, 1968.

$C_{19}H_{31}P$ Phenyldi-(3-methylamyl)phosphine (DAVIES, PEARSE, and JONES), 1268.
$C_{18}H_{32}O_2$ Linolic acid, constitution of (HAWORTH), 1456.
$C_{18}H_{36}O_3$ Acid, and its silver salt, from cutin (LEGG and WHEELER), 2457.

18 III

$C_{18}H_{11}O_4N_3$ *N*-2′:4′-Dinitrophenylcarbazole (LE FÈVRE), 737.
$C_{18}H_{13}O_4N_3$ 2-Dinitrostyrylmethylquinolines (BENNETT and PRATT), 1467.
$C_{18}H_{13}O_4Cl$ Chlorodiacetoxyanthracene (HARDACRE and PERKIN), 188.
$C_{18}H_{14}O_2N_2$ Nitro-8-benzoyldihydropentindole (PLANT), 2496.
$C_{18}H_{14}O_5N_2$ α-Cyano-2-nitro-3:4-dimethoxy-2′-aldehydostilbene (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1673.
$C_{18}H_{14}O_6N_2$ 5-Keto-2-phenyl-4-(2′-nitro-3′:4′-dimethoxybenzylidene)-4:5-dihydrooxazole (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2932.
$C_{18}H_{14}O_6N_6$ 2:4:6-Trinitro-1-amino-3:5-dianilinobenzene (FLÜRSCHEIM and HOLMES), 336.
$C_{18}H_{15}ON$ 8-Benzoyldihydropentindole (PLANT), 2496.
$C_{18}H_{15}O_3N$ β-2-Phenyl-4-quinolone-3-propionic acid (PLANT), 2497.
$C_{18}H_{15}O_4N_3$ 10-Nitro-9-hydroxy-8-benzoyltetrahydropentindole (PLANT), 2496.
$C_{18}H_{14}O_7N_2$ 2-Nitro-α-benzamido-3:4-dimethoxycinnamic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2932.
$C_{18}H_{17}ON$ 8-Phenoxyethyl-α-naphthylamine (PEACOCK, BHATTACHARYA, and RAO), 1927.
$C_{18}H_{17}ON_3$ 8-3-Nitrosomethylamino-1-methylamino-2-phenylnaphthalene (KENTISH), 1175.
α-3-Nitrosomethylamino-1-methylimino-2-phenyl-1:2-dihydronaphthalene (KENTISH), 1173.
$C_{18}H_{17}O_4N$ γ-*o*-Benzamidobenzoylbutyric acid (PLANT), 2497.
$C_{18}H_{17}O_4Cl$ 2′:4′:6′-Trimethoxyflavylium chloride (CULLINANE and PHILPOTT), 1765.
$C_{18}H_{18}N_4S_2$ 2:2′-*oo*′-Dithiodiphenyl-4:5-dihydroglyoxaline (MCCLELLAND and WARREN), 2626.
$C_{18}H_{19}ON$ 1-Benzoyl-2:3-dimethyl-1:2:3:4-tetrahydroquinoline (PLANT and ROSSER), 1865.
$C_{18}H_{19}O_3N$ Di-(4-hydroxy-2:5-dimethylphenyl)acetonitrile (CLEMO, HAWORTH, and WALTON), 2376.
$C_{18}H_{19}O_3N$ Diacetyl-*l*-*iso*diphenylhydroxyethylamine (READ, CAMPBELL, and BARKER), 2311.
$C_{18}H_{21}O_2N$ β-4-Methoxy-2:5-dimethylphenylpropionanilide (CLEMO, HAWORTH, and WALTON), 2378.
$C_{18}H_{21}O_3N$ β-4-Methoxy-2:5-dimethylphenylethyl phenylcarbamate (CLEMO, HAWORTH, and WALTON), 2379.
$C_{18}H_{24}O_4N_4$ Hexa-acetamidobenzene (FLÜRSCHEIM and HOLMES), 335.
$C_{18}H_{36}IP$ *p*-Tolylmethyldi-*n*-amylphosphonium iodide (DAVIES, PEARSE, and JONES), 1266.
p-Tolylmethyldi*iso*amylphosphonium iodide (DAVIES, PEARSE, and JONES), 1267.
p-Tolylmethyldi-(*dl*-β-methylbutyl)phosphonium iodide (DAVIES, PEARSE, and JONES), 1267.

18 IV

$C_{18}H_{10}O_4N_2Cl_2$ 5:6:8-Trichloro-2-dinitrostyryl-4-methylquinoline (BENNETT and PRATT), 1467.
$C_{18}H_{11}O_4N_2Cl_3$ 5:8-Dichloro-2-dinitrostyryl-4-methylquinoline (BENNETT and PRATT), 1467.
$C_{18}H_{12}O_{10}N_4S_2$ Di-*m*-nitrobenzenesulphon-*o*′-nitroanilide (BELL), 2788.

$C_{18}H_{13}NClAs$ 7-Chloro-12:7-dihydro*iso*acenaphthabenzarsazine (GIBSON and JOHNSON), 1621.

$C_{18}H_{13}NBrAs$ 7-Bromo-12:7-dihydro*iso*acenaphthabenzarsazine (GIBSON and JOHNSON), 1621.

$C_{18}H_{15}O_3ClSi$ Triphenoxychlorosilicane (THOMPSON and KIPPING), 1177.

$C_{18}H_{16}O_3NAs$ *o*-(3-Acenaphthylamino)phenylarsinic acid (GIBSON and JOHNSON), 1621.

$C_{18}H_{16}N_2Cl_4Co$ Diquinolinium cobaltous chloride (PERCIVAL and WARDLAW), 1507.

$C_{18}H_{16}N_2Br_4Co$ Diquinolinium cobaltous bromide (PERCIVAL and WARDLAW), 1508.

$C_{18}H_{16}N_2I_4Co$ Diquinolinium cobaltous iodide (PERCIVAL and WARDLAW), 1509.

$C_{18}H_{17}O_4Cl_4Fe$ 2′:4′:6′-Trimethoxyflavylium ferrichloride (CULLINANE and PHILPOTT), 1765.

$C_{18}H_{19}O_2NS$ 4-Phenylpenthian-4-ol phenylurethane (BENNETT and WADDINGTON), 2831.

$C_{18}H_{20}O_2N_2S_2$ Di-2-methylthioldibenzoylethylenediamine (MCCLELLAND and WARREN), 2625.

$C_{18}H_{21}ONS$ Benzenesulphonylbenzylpiperidines (BRYANS and PYMAN), 550.

$C_{18}H_{21}O_2NS$ Phenyl ε-hydroxyamyl sulphide phenylurethane (BENNETT and HEATHCOAT), 274.

$C_{18}H_{21}O_3NS_2$ 4-Phenylpenthian-4-ol-1-*p*-toluenesulphonylimine (BENNETT and WADDINGTON), 2838.

$C_{18}H_{26}ON_4Br_2$ Substance, from methyloxysparteine and cyanogen bromide (CLEMO and RAPER), 1940.

$C_{18}H_{36}O_9NCl$ Tetra-acetylglucosidyldiethylamide hydrochloride (BAKER), 1209.

$C_{18}H_{31}ON_2I$ Dimethyloxysparteine methiodide (CLEMO and RAPER), 1940.

$C_{18}H_{44}O_{13}N_6Co_2$ Hexa-allylamineperoxodihydroxodicobalt trinitrate (PERCIVAL and WARDLAW), 1319.

18 V

$C_{18}H_{12}O_6N_2S_2Na_2$ Sodium *m*-xyleneazo-3:6-disulpho-β-naphthyl sulphite (KING), 608.

$C_{18}H_{16}ON_2Br_5Mo$ Diquinolinium molybdenyl pentabromide (ANGELL, JAMES, and WARDLAW), 2582.

$C_{18}H_{56}O_4N_6Cl_2Co_2$ Hexapropylamineperoxodihydroxodicobalt trichloride (PERCIVAL and WARDLAW), 1319.

C_{19} Group.

$C_{19}H_{12}$ Substances, from diacetone alcohol and magnesium 9-fluorenyl bromide (MAITLAND and TUCKER), 2565.

$C_{19}H_{22}$ β-9-Fluorenyl-3-methylpentane (MAITLAND and TUCKER), 2566.

19 II

$C_{19}H_{16}O_2$ Substance, from guaiacol and α-phenylacetoacetic ester (BAKER and EASTWOOD), 2907.

$C_{19}H_{18}O_6$ 5:7:3′:4′-Tetramethoxy-3-phenylcoumarin (BAKER), 1598.

$C_{19}H_{18}O_8$ β-Glucosidoxyxanthones (ROBERTSON and WATERS), 2241.

$C_{19}H_{18}O_9$ 7-β-Glucosidoxy-1-hydroxyxanthone (ROBERTSON and WATERS), 2242.

$C_{19}H_{20}O_2$ Ethyl methoxybenzylcinnamates (INGOLD and SHOPPEE), 453.

$C_{19}H_{20}O_6$ 2-Hydroxy-4:6-dimethoxyphenyl 2:4-dimethoxystyryl ketone (CULLINANE and PHILPOTT), 1763.

$C_{19}H_{22}O_2$ α-9-Fluorenyl-αγγ-trimethyltrimethylene glycol (MAITLAND and TUCKER), 2566.

$C_{19}H_{22}O_8$ 2:6-Dihydroxy-3:4-dimethoxyphenyl 3:4:5-trimethoxybenzyl ketone (BAKER and ROBINSON), 158.

$C_{19}H_{33}P$ *p*-Tolyldi-(3-methylamyl)phosphine (DAVIES, PEARSE, and JONES), 1268.

$C_{19}H_{36}O_2$ Ethyl ester, of acid, $C_{15}H_{28}O_2$ (LEGG and WHEELER), 2455.

$C_{19}H_{38}O$ 3:7:11-Trimethyl-15-hexadecanone (HEILBRON and THOMPSON), 889.

19 III

$C_{19}H_{11}O_5N$ Resorcinolcinchomeronein (TEWARI), 1643.

$C_{19}H_{11}O_7N$ Phloroglucinolcinchomeronein (TEWARI), 1643.

$C_{19}H_{12}O_3N_2$ β-3-Nitro-4-methoxyphenylethylamine, and its hydrochloride (CALLOW, GULLAND, and HAWORTH), 1453.

$C_{19}H_{13}O_4N$ Phenolcinchomeronein (TEWARI), 1643.

$C_{19}H_{14}ON_2$ β-3-Amino-4-methoxyphenylethylamine, and its hydrochloride (CALLOW, GULLAND, and HAWORTH), 1454.

$C_{19}H_{14}O_2N_4$ *m*-Phenylenediaminecinchomeronein (TEWARI), 1644.

$C_{19}H_{14}O_3N_2$ β-Phthalimidoethylquinolones (SESHADRI), 2954.

$C_{19}H_{15}O_4N_3$ 2-Dinitrostyryl-4:6-dimethylquinoline (BENNETT and PRATT), 1468.

$C_{19}H_{15}O_5B$ 1-Hydroxy-7-acetoxyxanthone diacetoborate (ROBERTSON and WATERS), 2242.

$C_{19}H_{16}O_3N_2$ Nitro-9-benzoyltetracarbazoles (PLANT and RUTHERFORD), 1974.

$C_{19}H_{17}O_2P$ Triphenylmethylphosphinic acid, formation of (HATT), 2412.

$C_{19}H_{17}O_5N$ 3:10-Dimethoxyoxyprotoberberine (CHAKRAVARTI and PERKIN), 200.

$C_{19}H_{17}O_4Br$ 3:5:2:4′-Tetramethoxy-4-bromobenzylidenecoumaran-2-one (CULLINANE and PHILPOTT), 1764.

$C_{19}H_{19}ON$ 6-Benzoyl-2:3:4:5:6:13-hexahydro-α-quinindene (BLOUNT, PERKIN, and PLANT), 1985.

$C_{19}H_{19}O_2N$ 9-Benzoyl-10:11-dihydroxyhexahydrocarbazole (PLANT and RUTHERFORD), 1974.

$C_{19}H_{19}O_5N$ 4-Methoxyphthalidecarboxy-*p*-*m*-methoxyphenylethylamides (CHAKRAVARTI and PERKIN), 200.

$C_{19}H_{19}O_5Cl$ Tetramethyl-luteolinidin chloride (BAKER), 1603.

$C_{19}H_{20}ON_2$ 6-Phenylcarbamyl-2:3:4:5:6:13-hexahydro-α-quinindene (BLOUNT, PERKIN, and PLANT), 1985.

$C_{19}H_{20}O_5N_2$ 2′-Nitro-3′:4′-dimethoxyphenyl-(β-4-methoxyphenylethylamino)acetylene (CALLOW, GULLAND, and HAWORTH), 1449.

$C_{19}H_{20}O_5N_4$ Glucofuranose 5:6-carbonate phenylosazone (HAWORTH and PORTER), 2806.

$C_{19}H_{21}ON$ 1-Benzoyl-2-benzylpiperidine (BRYANS and PYMAN), 550.

$C_{19}H_{21}O_2N$ 3:10-Dimethoxytetrahydroprotoberberine (CHAKRAVARTI and PERKIN), 201.

*apo*Morphine dimethyl ether, attempted synthesis of (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1666.

$C_{19}H_{21}O_5N_3$ 2′-Nitro-3′:4′-dimethoxyphenyl-(3-amino-4-methoxy-β-phenylethylamino) acetylene, and its picrate (CALLOW, GULLAND, and HAWORTH), 1454.

$C_{19}H_{22}O_2N_2$ Malondi-β-phenylethylamide (CHILD and PYMAN), 2014.

$C_{19}H_{22}O_4N_2$ 2′-Nitro-3′:4′-dimethoxyphenylaceto-β-4-methoxyphenylethylamide (CALLOW, GULLAND, and HAWORTH), 1449.

Pentamethylene glycol bisphenylurethane (BENNETT and HEATHCOAT), 273.

$C_{19}H_{23}O_2N$ 2-Carboxy-*trans*-decahydronaphthalene-2-acetanils (RAO), 1966.

$C_{19}H_{23}O_5N$ Ethyl 4-hydroxyphenyl-2:6-dimethyl-1:4-dihydropyridine-3:5-dicarboxylates (HINKEL and MADEL), 754.

$C_{19}H_{25}O_2N$ 2-Carboxy-*trans*-decahydronaphthalene-2-anilic acids (RAO), 1966.

$C_{19}H_{29}O_2N$ *l*-Menthyl *o*-dimethylaminobenzoate (RULE and MACGILLIVRAY), 407.

$C_{19}H_{29}O_2N$ Tetra-acetylglucosidylpiperidides, and their hydrochlorides (BAKER), 1208.

$C_{19}H_{34}IP$ Phenylmethyldi-(δ-methylamyl)phosphonium iodide (DAVIES, PEARSE, and JONES), 1268.

$C_{19}H_{30}O_2Br_2$ αβ-Dibromohydrin palmitate (FAIRBOURNE and COWDREY), 134.

19 IV

$C_{19}H_{11}ONCl_4$ *N*-Chlorophenylbenzimino-2:4:6-trichlorophenyl ethers (CHAPMAN), 570.

$C_{19}H_{15}O_2N_2Br$ β-Phthalimidoethylquinolinium bromides (SESHADRI), 2953.

$C_{19}H_{16}ONCl$ Chloro-9-benzoyltetrahydrocarbazoles (PLANT and RUTHERFORD), 1974.

$C_{19}H_{16}O_3ClP$ Triphenylmethylchlorophosphinic acid, and its salts (HATT), 2418.

$C_{19}H_{17}O_4N_2Cl$ 11-Nitro-9-*p*-chlorobenzoyl-10-hydroxyhexahydrocarbazole (PLANT and RUTHERFORD), 1974.

$C_{19}H_{18}O_4N_2S$ Ethyl 1-anilinobenzthiazole-5:4′-dicarboxylate (DYSON, HUNTER, and SOYKA), 465.

2:3-(2′-Phenylpyrrolo)(4′:5′)-quinoline methosulphate (ROBINSON), 2951.

$C_{19}H_{20}O_4NCl$ Ethyl 4-chlorophenyl-2:6-dimethylpyridine-3:5-dicarboxylates (HINKEL and MADEL), 753.

$C_{19}H_{21}O_2NS$ 4-Benzylpenthian-4-ol phenylurethane (BENNETT and WADDINGTON), 2832.

$C_{19}H_{22}O_4NCl$ Ethyl 4-chlorophenyl-2:6-dimethyl-1:4-dihydropyridine-3:5-dicarboxylates (HINKEL and MADEL), 753.

C_{20} Group.

$C_{20}H_{32}$ Diterpene, from *d*-Δ³-carene and sulphuric acid (GIBSON and SIMONSEN), 311.

20 II

$C_{20}H_{16}O_4$ 2:6-Dibenzyloxy-*p*-benzoquinone (BAKER, NODZU, and ROBINSON), 77.

$C_{20}H_{18}O$ Benzoyloxydiphenylmethanes (SHORT and STEWART), 556.

Dibenzylphenols (SHORT and STEWART), 555.

$C_{20}H_{18}O_4$ 2:6-Dibenzyloxyquinol (BAKER, NODZU, and ROBINSON), 77.

$C_{20}H_{20}O_8$ 5-Hydroxy-3:6:7:3′:4′-pentamethoxyflavone (BAKER, NODZU, and ROBINSON), 81.

7-Hydroxy-3:5:3′:4′-pentamethoxyflavone (BAKER, NODZU, and ROBINSON), 79.

$C_{20}H_{24}O_{11}$ *O*-Tetra-acetyl-β-*p*-hydroxyphenylgalactoside (ROBERTSON), 1821.

$C_{20}H_{24}N_2$ *p*-Acetylphenyl*cyclo*hexane phenylhydrazone (MAYES and TURNER), 507.

20 III

$C_{20}H_{12}OS$ *iso*Naphthathioxin, synthesis of (COHEN and SMILES), 209.

$C_{20}H_{12}O_4N_4$ 2:3-Di-*m*-nitrophenylquinoxaline (BOON and NISBET), 1901.

$C_{20}H_{12}O_8N_6$ Bisdinitrobenzylidene-*o*-phenylenediamine (BENNETT and PRATT), 1467.

$C_{20}H_{12}Br_2S_2$ Di-1-bromonaphthyl 2-disulphide (COHEN and SMILES), 211.

$C_{20}H_{16}O_3N_2$ 2-γ-Phthalimidopropyl*iso*quinolone (SESHADRI), 2959.

$C_{20}H_{16}O_4N_2$ 1-β-Phthalimidoethyl-6-methoxy-2-quinolone (SESHADRI), 2956.

$C_{20}H_{17}ON$ Benzophenyl-*m*-tolylamide (GIBSON and JOHNSON), 1475.

Benzoylphenyl-*o*-tolylamine (GIBSON and JOHNSON), 2748.

N-*o*-Tolylbenziminophenyl ether (GIBSON and JOHNSON), 2747.

N-*m*-Tolylbenziminophenyl ether (GIBSON and JOHNSON), 1475.

$C_{20}H_{17}O_4N$ 4-Nitropyrocatechol dibenzyl ether (BALABAN), 1092.

$C_{20}H_{17}O_4N_3$ Phenyldi-*m*-nitrodibenzylamine (REILLY, DRUMM, and CREEDON), 644.

$C_{20}H_{16}O_8N_2$ Nitro-9-toluoyltetrahydrocarbazoles (PLANT and RUTHERFORD), 1973.

$C_{20}H_{18}O_4N_2$ 1-γ-*o*-Carboxybenzamidopropyl-2-quinolone (SESHADRI), 2954.
2:5-Diketo-3:6-di-*o*-methoxybenzylidenepiperazine (DICKINSON and MARSHALL), 1496.
$C_{20}H_{18}O_5N_2$ 1-β-*o*-Carboxybenzamidoethyl-6-methoxy-2-quinolone (SESHADRI), 2955.
$C_{20}H_{19}ON$ 9-Toluoyltetrahydrocarbazoles (PLANT and RUTHERFORD), 1972.
$C_{20}H_{19}O_2N$ 4-Aminopyrocatechol dibenzyl ether (BALABAN), 1092.
$C_{20}H_{19}O_2N_3$ β-3-Acetylmethylamino-1-nitrosomethylamino-2-phenylnaphthalene (KENTISH), 1174.
$C_{20}H_{20}ON_2$ β-3-Acetylmethylamino-1-methylamino-2-phenylnaphthalene (KENTISH), 1174.
$C_{20}H_{20}O_4N_2$ 11-Nitro-9-*p*-toluoyl-10-hydroxyhexahydrocarbazole (PLANT and RUTHERFORD), 1973.
$C_{20}H_{22}O_6N_2$ Nitro-3′:4′:5:6-tetramethoxy-1-benzyl-3:4-dihydro*iso*quinolines (CALLOW, GULLAND, and HAWORTH), 664.
$C_{20}H_{23}O_5N$ Ethyl 4-methoxyphenyl-2:6-dimethylpyridine-3:5-dicarboxylates (HINKEL and MADEL), 752.
$C_{20}H_{24}O_2N_2$ Succinodi-β-phenylethylamide (CHILD and PYMAN), 2014.
$C_{20}H_{24}O_7N_2$ 6′-Nitro-3′:4′-dimethoxyphenylaceto-β-2:3-dimethoxyphenylethylamide (CALLOW, GULLAND, and HAWORTH), 663.
$C_{20}H_{25}O_2N$ Decahydronaphthalene-1:2-diacetanils (RAO), 1963, 1969.
$C_{20}H_{25}O_5N$ Ethyl 4-methoxyphenyl-2:6-dimethyl-1:4-dihydropyridine-3:5-dicarboxylates (HINKEL and MADEL), 752.
$C_{20}H_{27}O_3N$ Decahydronaphthalene-2:2-diacetanilic acids (RAO), 1963, 1968.
$C_{20}H_{36}IP$ Phenylethyldi-(δ-methylamyl)phosphonium iodide (DAVIES, PEARSE, and JONES), 1268.
p-Tolyldi-(δ-methylamyl)phosphine methiodide (DAVIES, PEARSE, and JONES), 1268.

20 IV

$C_{20}H_{13}OBrS$ 1-Bromo-2′-hydroxydinaphthyl 2:1′-sulphide (COHEN and SMILES), 212.
$C_{20}H_{14}O_2NBr$ 3-Bromo-4-benzoylaminobenzophenone (WATERS), 2109.
$C_{20}H_{14}O_2NI$ 3-Iodo-4-benzoylaminobenzophenone (WATERS), 2110.
$C_{20}H_{17}O_2N_2Br$ γ-Phthalimidopropylquinolinium bromides (SESHADRI), 2954.
$C_{20}H_{17}O_3N_2Br$ β-Phthalimidoethyi-3-methoxyquinolinium bromide (SESHADRI), 2954.
$C_{20}H_{18}O_3N_3Br$ 8-β-Phthalimidoethylamino-6-methoxyquinoline hydrobromide (BALDWIN), 2962.
$C_{20}H_{18}O_4N_4Cu$ Di-β-naphthylaminocupric nitrite (KING), 2597.
$C_{20}H_{18}O_6N_2S_2$ Di-*p*-toluenesulphonnitroanilides (BELL), 2788.
$C_{20}H_{20}N_2Cl_4Co$ Diquinaldinium cobaltous chloride (PERCIVAL and WARDLAW), 1508.
$C_{20}H_{20}N_2Br_4Co$ Diquinaldinium cobaltous bromide (PERCIVAL and WARDLAW), 1509.
$C_{20}H_{28}O_2NBr$ Di-[α-*p*-methoxyphenylethyl]dimethylammonium bromide (E. and E. STEDMAN), 614.

20 V

$C_{20}H_9O_{15}N_2S_5Na_5$ Sodium 4-sulpho-α-naphthaleneazo-3:6:8-trisulpho-β-naphthyl sulphite (KING), 608.
$C_{20}H_{10}O_{12}N_2S_4Na_4$ Sodium 4-sulpho-α-naphthaleneazodisulpho-β-naphthyl sulphites (KING), 608.
$C_{20}H_{11}O_9N_2S_3Na_3$ Sodium α-naphthaleneazo-3:6-disulpho-β-naphthyl sulphite (KING), 608.
Sodium 4-sulpho-α-naphthaleneazo-6-sulpho-β-naphthyl sulphite (KING), 607.

$C_{20}H_{12}O_6N_2S_2Na_2$ Sodium α-naphthaleneazosulpho-β-naphthyl sulphites (KING), 607.

C_{21} Group.

$C_{21}H_{12}O_6$ 2-Benzoylanthragallol (PERKIN and STORY), 1411.
$C_{21}H_{14}O_2$ Benzoxantha*spiro*pyran (IRVING), 1094.
$C_{21}H_{14}O_3$ 6-Hydroxy-2:3-diphenylbenzo-γ-pyrone (BAKER and EASTWOOD), 2906.
$C_{21}H_{14}O_4$ 5:7-Dihydroxy-2:3-diphenylbenzo-γ-pyrone (BAKER and EASTWOOD), 2901.
$C_{21}H_{16}O_4$ Benzyl hydrogen diphenate (LE FÈVRE), 737.
$C_{21}H_{16}O_2$ Benzylidene-*l*-*iso*hydrobenzoin (READ, CAMPBELL, and BARKER), 2314.
$C_{21}H_{18}O_7$ 2-Ethylcarbonato-1:9-diacetylanthranol (PERKIN and STORY), 1418.
$C_{21}H_{18}O_8$ 5:7-Diacetoxy-3′:4′-dimethoxy-3-phenylcoumarin (BAKER), 1599.
5:6-Diethylcarbonato-1-benzylidenecoumaran-2-one (PERKIN and STORY), 1421.
$C_{21}H_{19}N$ 2:3-Diphenyl-1:2:3:4-tetrahydroquinolines (PLANT and ROSSER), 1868.
$C_{21}H_{22}O_8$ Hexamethoxyflavone (BAKER, NODZU, and ROBINSON), 81.
O-Hexamethylquercetagetin (BAKER, NODZU, and ROBINSON), 82.
2-Methylirigenin 7:3′-dimethyl ether (BAKER and ROBINSON), 158.
$C_{21}H_{23}N$ 9-Piperidinomethyl-2-methylanthracene (BARNETT and GOODWAY), 1760.
$C_{21}H_{26}O_3$ *l*-Menthyl hydroxynaphthoates (RULE, SPENCE, and BRETSCHER), 2522.
$C_{21}H_{28}O_{11}$ *O*-Tetra-acetyl-β-*p*-anisylgalactoside (ROBERTSON), 1821.

21 III

$C_{21}H_{11}O_4Br$ 1-Bromo-2-benzoyloxyanthraquinone (HARDACRE and PERKIN), 186.
$C_{21}H_{11}O_4I$ 3-Iodo-2-benzoyloxyanthraquinone (HARDACRE and PERKIN), 189.
$C_{21}H_{14}O_2N_2$ *N*-Benzoylisatin-2-anil (CALLOW and HOPE), 1195.
Isatin-2-benzanilide (CALLOW and HOPE), 1198.
$C_{21}H_{14}O_4N_4$ 2:3-Di-*m*-nitro-2:3-diphenyl-5-methylquinoxaline (BOON and NISBET), 1901.
$C_{21}H_{14}O_8N_6$ Bisdinitrobenzylidene-3:4-tolylenediamine (BENNETT and PRATT), 1467.
$C_{21}H_{16}O_3N_2$ *o*-Benzamidophenylglyoxylanilide (CALLOW and HOPE), 1196.
$C_{21}H_{16}O_6N_2$ Diphthalimidoacetoxypropane (FAIRBOURNE and COWDREY), 133.
$C_{21}H_{18}ON_2$ 2:3-Diphenyl-1:2:3:4-tetrahydroquinoline nitrosoamines (PLANT and ROSSER), 1868.
$C_{21}H_{18}O_3N_2$ 5-Nitro-9-cinnamoyltetrahydrocarbazole (PLANT and RUTHERFORD), 1975.
$C_{21}H_{19}O_4N_2$ Aniline *o*-benzamidophenylglyoxylate (CALLOW and HOPE), 1196.
αε-Diphthalimidopentane (BALDWIN), 2963.
1-γ-Phthalimidopropyl-6-methoxy-2-quinolone (SESHADRI), 2957.
$C_{21}H_{19}ON$ Benzoylditolylamine (GIBSON and JOHNSON), 2748.
9-Cinnamoyltetrahydrocarbazole (PLANT and RUTHERFORD), 1975.
N-Tolylbenziminotolyl ethers (GIBSON and JOHNSON), 2747.
$C_{21}H_{19}O_2N_3$ 8-γ-Phthalimidopropyl-6-methylquinoline (BALDWIN), 2964.
$C_{21}H_{19}O_3N_3$ 8-γ-Phthalimidopropylamino-6-methoxyquinoline (BALDWIN), 2963.
$C_{21}H_{20}O_4N_2$ Anhydro-γ-*o*-carboxybenzamidopropyl-6-methoxyquinolinium hydroxide (+ $3H_2O$) (SESHADRI), 2957.
$C_{21}H_{20}O_5N_2$ 1-γ-*o*-Carboxybenzamidopropyl-6-methoxy-2-quinolone (SESHADRI), 2957.
$C_{21}H_{20}NCl$ 2:3-Diphenyl-1:2:3:4-tetrahydroquinoline hydrochlorides (PLANT and ROSSER), 1868.

$C_{21}H_{21}O_3N$ 9-Cinnamoyl-10:11-dihydroxyhexahydrocarbazole (PLANT and RUTHERFORD), 1975.

$C_{21}H_{21}O_3P$ Ethyl hydrogen triphenylmethylphosphinate, and its silver salt (HATT), 2418.

$C_{21}H_{21}Cl_3Sb$ Tribenzylstibine dichloride (CHALLENGER and PETERS), 2620.

$C_{21}H_{21}ClSi$ Tri-*p*-tolylsilicyl chloride (STEELE and KIPPING), 357.

$C_{21}H_{22}OSi$ Tri-*p*-tolylsilicol (STEELE and KIPPING), 357.

$C_{21}H_{22}O_2N_2$ Strychnine (PERKIN and ROBINSON), 964..

$C_{21}H_{22}O_6N_2$ Ethyl di-(3-nitrobenzyl)malonate (GULLAND, HAWORTH, and VIRDEN), 1671.

$C_{21}H_{23}NBr$ 10-Bromo-9-piperidinomethylmethylanthracenes (BARNETT and GOODWAY), 1760.

$C_{21}H_{23}O_2Sb$ Tribenzylstibine dihydroxide (CHALLENGER and PETERS), 2620.

$C_{21}H_{23}O_5N_3$ 1-α-Cyano-2′-nitro-3′:4′-dimethoxybenzyl-6-methoxy-2-methyltetrahydro*iso*quinoline (GULLAND and VIRDEN), 1799.

$C_{21}H_{24}ON_2$ Strychnidine, action of hydriodic acid on, and its salts (PERKIN and ROBINSON), 964.

$C_{21}H_{24}O_2N_2$ Dihydrostrychnine, and its salts (PERKIN and ROBINSON), 981.
Oxydihydrostrychnidine (A) (PERKIN and ROBINSON), 985.

$C_{21}H_{24}O_4N_4$ 4:4′-Di(cyanomethylamino)-2:5:2′:5′-tetramethoxydiphenylmethane (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2929.

$C_{21}H_{25}O_2Cl$ *l*-Menthyl chloronaphthoates (RULE, SPENCE, and BRETSCHER), 2521.

$C_{21}H_{25}O_4N$ *l*-Menthyl nitronaphthoates (RULE, SPENCE, and BRETSCHER), 2520.
Tetramethoxyaporphines (CALLOW, GULLAND, and HAWORTH), 658.

$C_{21}H_{26}ON_2$ Dihydrostrychnidines, and their salts (PERKIN and ROBINSON), 964.

$C_{21}H_{26}O_2N_2$ Glutarodi-β-phenylethylamide (CHILD and PYMAN), 2015.

$C_{21}H_{26}O_3N_2$ Dihydrostrychnic acid, and its hydrochloride (PERKIN and ROBINSON), 984.

$C_{21}H_{26}O_4N_2$ Dioxydihydrostrychnic acid (PERKIN and ROBINSON), 984.

$C_{21}H_{28}O_4N_2$ Amino-3′:4′:5:6-tetramethoxy-1-benzyl-2-methyltetrahydro*iso*quinolines (CALLOW, GULLAND, and HAWORTH), 665.

$C_{21}H_{28}O_4N_4$ 3:5:6-Trimethyl glucose osazone (ANDERSON, CHARLTON, HAWORTH, and NICHOLSON), 1335.

21 IV

$C_{21}H_{17}O_2NS$ 1-*p*-Toluidino-4-methoxythioxanthone (ROBERTS and SMILES), 869.

$C_{21}H_{19}O_7N_3P$ Tri-*p*-nitrotribenzylphosphine oxide (CHALLENGER and PETERS), 2614.

$C_{21}H_{19}O_7N_3As$ Tri-*p*-nitrotribenzylarsine oxide (CHALLENGER and PETERS), 2619.

$C_{21}H_{19}O_3N_2Br$ γ-Phthalimidopropyl-6-methoxyquinolinium bromide (SESHADRI), 2956.

$C_{21}H_{19}O_{10}N_4As$ Tri-*p*-nitrotribenzylarsine hydroxynitrate (CHALLENGER and PETERS), 2619.

$C_{21}H_{20}O_2ClP$ Ethyl triphenylmethylchlorophosphinate (HATT), 2419.

$C_{21}H_{21}O_3NS$ *O*-*p*-Toluenesulphonyl-*dl*-*iso*diphenylhydroxyethylamine (READ, CAMPBELL, and BARKER), 2312.

$C_{21}H_{21}O_3ClTe$ Trihydroxytrimethyltriphenyltelluronium chlorides (MORGAN and BURGESS), 2217.

$C_{21}H_{21}O_4Cl_3Te_2$ Tri-2-hydroxytri-5-methyltriphenyltelluronium tellurium oxychloride (MORGAN and BURGESS), 2216.

$C_{21}H_{23}O_3N_2I$ Nitro-3′:4′:5:6-tetramethoxy-1-benzyl-3:4-dihydro*iso*quinoline methiodides (CALLOW, GULLAND, and HAWORTH), 664.

C_{22} Group.

$C_{22}H_{18}$ 9-Benzylmethylanthracenes (BARNETT and GOODWAY), 1760.

22 II

$C_{22}H_{14}O_6$ 2-Benzoylanthragallol 3-methyl ether (PERKIN and STORY), 1413.
$C_{22}H_{16}O_3$ 7-Hydroxy-3-phenyl-4-benzylcoumarin (BAKER and EASTWOOD), 2906.
$C_{22}H_{16}O_4$ 5-Hydroxy-7-methoxy-2:3-diphenylbenzo-γ-pyrone (BAKER and EASTWOOD), 2902.
7-Hydroxyphenyl-*p*-methoxyphenylbenzo-γ-pyrones (BAKER and EASTWOOD), 2903.
$C_{22}H_{16}O_5$ 5:7-Dihydroxy-2-phenyl-3-*p*-methoxyphenylbenzo-γ-pyrone (BAKER and EASTWOOD), 2903.
$C_{22}H_{17}Br$ 10-Bromo-9-benzylmethylanthracenes (BARNETT and GOODWAY), 1761.
$C_{22}H_{19}N$ 9-Anilinomethyl-2-methylanthracene (BARNETT and GOODWAY), 1760.
$C_{22}H_{21}Cl$ Di-*p*-tolyl-*o*-tolylchloromethane (HATT), 1630.
$C_{22}H_{22}O_4$ 2:6-Dibenzyloxy-1:4-dimethoxybenzene (BAKER, NODZU, and ROBINSON), 78.
$C_{22}H_{24}O_6$ 2-Methylirigenin trimethyl ether (BAKER and ROBINSON), 159.
$C_{22}H_{32}O_2$ *l*-Menthyl 2-methyl-1-naphthoate (RULE, SPENCE, and BRETSCHER), 2522.
$C_{22}H_{42}O_3$ Acid, from cutin, and its silver salt (LEGG and WHEELER), 2446.

22 III

$C_{22}H_{14}O_6N_4$ Dehydroacetophenone-*mm'*-dinitrobenzil (BOON and NISBET), 1902.
$C_{22}H_{14}NBr$ 10-Bromo-9-anilinomethyl-2-methylanthracene (BARNETT and GOODWAY), 1760.
$C_{22}H_{16}O_3N_2$ 4-Salicylideneamino-4'-malonylamidodiphenyl (LE FÈVRE), 735.
$C_{22}H_{16}O_4S$ Toluene-*p*-sulphonyl-1-benzylidenecoumaran-2-one (PERKIN and STORY), 1421.
$C_{22}H_{16}O_7S$ Toluene-*p*-sulphonylanthragallol 1-methyl ether (PERKIN and STORY), 1417.
$C_{22}H_{17}O_6N_3$ 2:6-Di-*p*-nitrobenzoyloxy-3-*iso*propylpyridine (GIBSON and SIMONSEN), 1078.
$C_{22}H_{18}O_6N_2$ 2:5-Diketo-3:6-diacetoxybenzylidenepiperazines (DICKINSON and MARSHALL), 1495.
$C_{22}H_{20}OCl_2$ αγ-Dichlorohydrin triphenylmethyl ether (FAIRBOURNE and COWDREY), 135.
$C_{22}H_{21}O_3N_3$ 8-γ-Phthalimidopropylamino-6-ethoxyquinoline (BALDWIN), 2964.
$C_{22}H_{22}O_4N_2$ 2:5-Diketo-3:6-di-*o*-ethoxybenzylidenepiperazine (DICKINSON and MARSHALL), 1496.
$C_{22}H_{23}O_7N_3$ Anhydrocotarnine-2-nitro-3:4-dimethoxyphenylacetonitrile (GULLAND and VIRDEN), 1798.
$C_{22}H_{23}O_6N_3$ Anhydrolaudaline-2-nitro-3:4-dimethoxyphenylacetonitrile (GULLAND and VIRDEN), 1798.
$C_{22}H_{26}ON_2$ Methyl-ψ-strychnidine, and its salts (PERKIN and ROBINSON), 995.
$C_{22}H_{26}O_2N_2$ Dibenzoyl-γ-tetramethylpiperazine (KIPPING), 2896.
$C_{22}H_{28}O_2N_2$ Adipodi-β-phenylethylamide (CHILD and PYMAN), 2015.
$C_{22}H_{28}O_6N_2$ Oxalodi-β-veratrylethylamide (CHILD and PYMAN), 2015.
$C_{22}H_{29}O_9N$ Tetra-acetylglucosidylbenzylmethylamide, and its hydrochloride (BAKER), 1207.
$C_{22}H_{32}O_2N_2$ Methoxytetrahydrostrychnidine (PERKIN and ROBINSON), 993.

22 IV

$C_{22}H_{13}O_2BrS$ 1-Bromo-2'-acetoxydinaphthyl 2:1'-sulphide (COHEN and SMILES), 212.
$C_{22}H_{23}N_3IS$ *p*-Dimethylaminocanils of naphthathiazole-2-aldehyde ethiodides (HAMER), 2607.

$C_{23}H_{28}O_9NCl$ Tetra-acetylglucosidyl-*p*-chlorobenzylmethylamide, and its hydrochloride (BAKER), 1207.

$C_{22}H_{30}O_4N_2S_2$ Di-*p*-toluenesulphonyltetramethylpiperazines (KIPPING), 2894.

C_{23} Group.

$C_{23}H_{14}O_7$ Benzoylacetylanthragallol (PERKIN and STORY), 1410.

$C_{23}H_{16}O_3$ 7-Hydroxy-3-phenyl-2-styrylbenzo-γ-pyrone (BAKER and EASTWOOD), 2901.

$C_{23}H_{16}O_4$ 5:7-Dihydroxy-3-phenyl-2-styrylbenzo-γ-pyrone (BAKER and EASTWOOD), 2902.

$C_{23}H_{16}O_4$ 1-Benzoylanthragallol 2:3-dimethyl ether (PERKIN and STORY), 1411.

$C_{23}H_{18}O_3$ 7-Hydroxy-3:4-dibenzylcoumarin (BAKER and EASTWOOD), 2906.

7-Methoxy-3-phenyl-4-benzylcoumarin (BAKER and EASTWOOD), 2906.

$C_{23}H_{18}O_5$ 7-Hydroxy-2:3-di-*p*-methoxyphenylbenzo-γ-pyrone (BAKER and EASTWOOD), 2904.

7-Hydroxy-3-phenyl-2-(3:4-dimethoxyphenyl)benzo-γ-pyrone (BAKER and EASTWOOD), 2904.

$C_{23}H_{24}O_9$ Acetyl derivative of 2-methylirigenin 7:3′-dimethyl ether (BAKER and ROBINSON), 158.

$C_{23}H_{32}O_6$ Ethyl δ-4-methoxy-2:5-dimethylbenzoylbutane-αβγ-tricarboxylate (CLEMO, HAWORTH, and WALTON), 2385.

23 III

$C_{23}H_{17}O_4N$ α-*o*-Carboxybenzamido-ββ-diphenylpropionic anhydride (HARINGTON and MCCARTNEY), 896.

$C_{23}H_{20}O_3N_2$ 2-Benzamidophenylglyoxylo-β-phenylethylamide (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1672.

$C_{23}H_{21}O_2N$ Acetylbenzylidene-*dl*-*iso*diphenylhydroxyethylamine (READ, CAMPBELL, and BARKER), 2311.

$C_{23}H_{22}O_4N_2$ *p*-Phenylethylamine 2-benzamidophenylglyoxylate (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1672.

$C_{23}H_{23}O_3N_3$ 8-(ε-Phthalimido-*n*-amylamino)-6-methoxyquinoline (BALDWIN), 2964.

$C_{23}H_{24}O_2N_4$ αγ-Di-(6-methoxy-8-quinolylamino)propane (BALDWIN), 2962.

$C_{23}H_{26}O_4N_2$ Brucine (PERKIN and ROBINSON), 964.

$C_{23}H_{23}O_9N_2$ Tetra-acetylglucosidyl-*p*-cyanobenzylmethylamide (BAKER), 1207.

$C_{23}H_{30}O_2N_2$ Pimelodi-β-phenylethylamide (CHILD and PYMAN), 2015.

$C_{23}H_{30}O_3N_2$ Formylmethoxytetrahydrostrychnidine (PERKIN and ROBINSON), 992.

$C_{23}H_{31}O_9N$ Tetra-acetylglucosidyl-*p*-methylbenzylmethylamide, and its hydrochloride (BAKER), 1207.

$C_{23}H_{32}O_2N_2$ Methoxymethyltetrahydrostrychnidine (B), and its salts (PERKIN and ROBINSON), 986.

23 IV

$C_{23}H_{19}N_2IS$ Dimethylbenzthio-ψ-cyanine iodides (HAMER), 2603.

$C_{23}H_{23}O_4NS$ *N*-Acetyl-*O*-*p*-toluenesulphonyl-*dl*-*iso*diphenylhydroxyethylamine (READ, CAMPBELL, and BARKER), 2312.

$C_{23}H_{23}N_2IS$ *p*-Dimethylaminostyrylnaphthathiazole ethiodides (HAMER), 2606.

C_{24} Group.

$C_{24}H_{16}O_4$ Naphthyl hydrogen diphenates (LE FÈVRE), 737.

$C_{24}H_{16}O_7$ Benzoylacetylanthragallol methyl ethers (PERKIN and STORY), 1411.

$C_{24}H_{18}O_4$ 7-Hydroxy-3-*p*-methoxyphenyl-2-styrylbenzo-γ-pyrone (BAKER and EASTWOOD), 2903.

$C_{24}H_{20}O_2$ 3′-*iso*Propylbenzo-β-naphtha*spiro*pyran (HEILBRON and IRVING), 941.
$C_{24}H_{20}O_3$ 7-Methoxy-3:4-dibenzylcoumarin (BAKER and EASTWOOD), 2907.
$C_{24}H_{20}O_5$ 7-Methoxy-3-phenyl-2-(3:4-dimethoxyphenyl)benzo-γ-pyrone (BAKER and EASTWOOD), 2905.
$C_{24}H_{20}O_8$ Syringetin 4-benzyl ether (HEAP and ROBINSON), 72.
$C_{24}H_{22}O_{11}$ *O*-Triacetylmyricetin 3′:4′:5′-trimethyl ether (HEAP and ROBINSON), 70.
$C_{24}H_{28}O_2$ Bis(styryl-*n*-propyl ketone) (HEILBRON and IRVING), 933.
$C_{24}H_{38}O_{10}$ Tetra-acetyl-β-l-menthylgalactoside (ROBERTSON), 1822.

24 III

$C_{24}H_{14}O_5N_6$ 7-Azoxy-3-carboline-3-carboxylic acid (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2941.
$C_{24}H_{16}O_8N_6$ 2:2′-Di-(2″-4‴-dinitrophenylamino)diphenyl (LE FÈVRE), 737.
$C_{24}H_{20}O_4N_4$ α-Cyano-2-nitro-3:4-dimethoxy-2′-aldehydostilbene phenylhydrazone (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1674.
$C_{24}H_{22}N_4As_2$ 3:3′-Diamino-4:4′-dianilinoarsenobenzene (BARBER), 475.
$C_{24}H_{24}O_4N_2$ αδ-Bis-(6:7-methylenedioxy-3:4-dihydro*iso*quinolyl-1-)butane, and its salts (CHILD and PYMAN), 2020.
$C_{24}H_{28}O_6N_2$ Adipodi-β-piperonylethylamide (CHILD and PYMAN), 2016.
$C_{24}H_{32}O_2N_2$ Suberodi-β-phenylethylamide (CHILD and PYMAN), 2015.
$C_{24}H_{32}O_6N_2$ Succinodi-β-veratrylethylamide (CHILD and PYMAN), 2015.

24 IV

$C_{24}H_{19}O_8N_3S_2$ Di-*p*-toluenesulphon-1:8-dinitro-β-naphthalide (BELL), 2789.
$C_{24}H_{20}O_8P_2Ba$ Barium diphenyl phosphate (PLIMMER and BURCH), 296.
$C_{24}H_{21}N_2IS$ Methylethylbenzthio-ψ-cyanine iodides (HAMER), 2603.

C_{25} Group.

$C_{25}H_{16}O_2$ Xantha-β-naphtha*spiro*pyran (IRVING), 1094.
$C_{25}H_{20}O_3$ 3:4:5-Trihydroxytetraphenylmethane (HARDY), 1005.
$C_{25}H_{22}O_3$ Ketone, from *o*-methoxybenzaldehyde and benzyl methyl ketone (HEILBRON and IRVING), 941.
$C_{25}H_{22}O_{12}$ Tetra-acetylsyringetin (HEAP and ROBINSON), 73.

25 III

$C_{25}H_{15}O_6N_5$ Tetranitro-2:4-distyrylquinoline (BENNETT and PRATT), 1467.
$C_{25}H_{19}OCl$ 3-Chloro-4-hydroxytetraphenylmethane (HARDY), 1006.
$C_{25}H_{19}OBr$ 3-Bromo-4-hydroxytetraphenylmethane (HARDY), 1007.
$C_{25}H_{19}O_6N_3$ α-Cyano-2-nitro-3:4-dimethoxy-2′-*m*-carboxyphenyliminomethylstilbene (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1674.
$C_{25}H_{21}O_6N$ α-*o*-Carboxybenzamido-ββ-di-(4-methoxyphenyl)propionic anhydride (HARINGTON and MCCARTNEY), 894.
$C_{25}H_{23}OP$ Triphenylbenzylphosphonium hydroxide, and its salts (FENTON and INGOLD), 2353.
$C_{25}H_{23}O_4N_3$ Substance, from α-cyano-2-nitro-3:4-dimethoxy-2-*m*-carboxyphenyliminomethylstilbene, ferrous sulphate and ammonia (GULLAND, HAWORTH, VIRDEN, and CALLOW), 1675.
$C_{25}H_{29}O_2N$ *d-iso*-Diphenylhydroxyethylamino-*d*-methylenecamphor (READ, CAMPBELL, and BARKER), 2312.
$C_{25}H_{30}O_4N_2$ Base, and its salts, from glutarodi-β-veratrylethylamide and phosphorus oxychloride (CHILD and PYMAN), 2020.
$C_{25}H_{34}O_2N_2$ Azelaodi-β-phenylethylamide (CHILD and PYMAN), 2015.
$C_{25}H_{34}O_6N_2$ Glutarodi-β-veratrylethylamide (CHILD and PYMAN), 2015.

25 IV

$C_{25}H_{23}O_3N_3S$ Nitroso-*p*-toluenesulphonyl-β′-*NN*′-dimethyl-2-phenylnaphthylene-1:3-diamine (KENTISH), 1174.

$C_{25}H_{22}N_3IS$ Diethylbenzthio-ψ-cyanine iodides (HAMER), 2604.

C_{26} Group.

$C_{26}H_{16}N_2$ 13:14-(*oo*′-Diphenylylene)dibenzoct-12:15-diazine (LE FÈVRE), 736.

$C_{26}H_{18}O_3$ 3′-Methylxantha-β-naphtha*spiro*pyran (IRVING), 1095.

$C_{26}H_{21}Cl$ 4-Chloro-3-methyltetraphenylmethane (HARDY), 1009.

$C_{26}H_{22}N_2$ Diphenyl-*p*-tolylbenzenylamidines (CHAPMAN), 2136.

$C_{26}H_{32}O_2$ Bis(styryl butyl ketones) (HEILBRON and IRVING), 933.

$C_{26}H_{50}O_2$ Ethyl ester of acid, $C_{22}H_{42}O_2$ (LEGG and WHEELER), 2446.

26 III

$C_{26}H_{14}N_2Br_2$ 3:8-Dibromo-13:14-(*oo*′-diphenylene)dibenzoct-12:15-diazine (LE FÈVRE), 737.

$C_{26}H_{17}O_9N_7$ Bisdinitrobenzylidene-4:4′-diaminodiphenylamine (BENNETT and PRATT), 1467.

$C_{26}H_{18}O_6N_2$ Diphthalimidobenzoyloxypropane (FAIRBOURNE and COWDREY), 134.

$C_{26}H_{19}O_2N$ *d*-Diphenyl-α- and -β-naphthils (WREN and WRIGHT), 137.

$C_{26}H_{20}O_2N_2$ 2:2′-Disalicylideneaminodiphenyl (LE FÈVRE), 736.

$C_{26}H_{20}O_2Cl_2$ *s*-2:2′-Dichlorobenzpinacol (HATT), 1628.

$C_{26}H_{20}O_6N_4$ Substance, from benzidine and *mm*′-dinitrobenzyl (BOON and NISBET), 1902.

$C_{26}H_{21}O_3N$ Diphenylsuccin-naphthylamic acids (WREN and WRIGHT), 136, 140.

$C_{26}H_{24}O_4N_2$ Tetramethylene glycol bis-α-naphthylurethane (BENNETT and HEATHCOAT), 272.

$C_{26}H_{31}O_7N_3$ Di-(2:5-dimethoxyanilino)aceto-2:5-dimethoxyanilide (GULLAND, ROBINSON, SCOTT, and THORNLEY), 2927.

$C_{26}H_{32}O_4N_2$ αδ-Bis-(6:7-dimethoxy-3:4-dihydro*iso*quinolyl-1-)butane, and its salts (CHILD and PYMAN), 2016.

$C_{26}H_{36}O_2N_2$ Sebacodi-β-phenylethylamide (CHILD and PYMAN), 2015.

$C_{26}H_{36}O_4N_2$ αδ-Bis-(6:7-dimethoxytetrahydro*iso*quinolyl-1-)butane, and its salts (CHILD and PYMAN), 2017.

$C_{26}H_{36}O_4N_2$ Adipodi-β-veratrylethylamide (CHILD and PYMAN), 2016.

26 IV

$C_{26}H_{18}O_2N_2Br$ Dibromo-2:2′-disalicylideneaminodiphenyls (LE FÈVRE), 736.

$C_{26}H_{24}N_2Cl_4Te$ 4:4′-Diphenyldimethyldiaminodiphenyl telluridichloride (MORGAN and BURGESS), 1105.

C_{27} Group.

$C_{27}H_{18}O_2$ 3-Phenylbenzo-β-naphtha*spiro*pyran (HEILBRON and IRVING), 940.

$C_{27}H_{20}O$ 9-Benzhydrylanthrone (BARNETT and GOODWAY), 813.

$C_{27}H_{22}O_{14}$ Hexa-acetylquercetagetin (BAKER, NODZU, and ROBINSON), 83.

$C_{27}H_{24}O$ 2:6-Dibenzylphenyl benzyl ether (SHORT and STEWART), 555.
4-Ethoxytetraphenylmethane (HARDY), 1004.

$C_{27}H_{24}O_9$ 1:2:3-Tribenzyloxybenzene (BAKER, NODZU, and ROBINSON), 77.

$C_{27}H_{26}O_{12}$ Tetra-acetyl-β-glucosidoxyxanthones (ROBERTSON and WATERS), 2240.

$C_{27}H_{28}O_{13}$ Tetra-acetyl-7-β-glucosidoxy-1-hydroxyxanthone (ROBERTSON and WATERS), 2241.

$C_{27}H_{28}O_{14}$ 7-*O*-Tetra-acetyl-β-glucosidoxy-1-acetoxyxanthone (ROBERTSON and WATERS), 2242.

$C_{27}H_{42}O$ Ergosta-dienones (HEILBRON, JOHNSTONE, and SPRING), 2254.
Ergosterol, isomerides of (HEILBRON, SEXTON, and SPRING), 926; acetylation and catalytic hydrogenation of (HEILBRON and SEXTON), 921.
$C_{27}H_{44}O$ Dihydroergosterols, isomeric (HEILBRON, JOHNSTONE, and SPRING), 2248.
Zymosterol, isolation of (HEILBRON and SEXTON), 2255.
$C_{27}H_{46}O$ Dihydrozymosterol (HEILBRON and SEXTON), 2257.

27 III

$C_{27}H_{18}OCl_2$ 1:5-Dichloro-9-benzhydrylanthrone (BARNETT and GOODWAY), 21.
$C_{27}H_{21}O_3N_3$ *o*-Benzamidophenylglyoxylanilideanil (CALLOW and HOPE), 1198.
$C_{27}H_{26}O_4N_2$ Pentamethylene glycol bis-α-naphthylurethane (BENNETT and HEATHCOAT), 273.
$C_{27}H_{29}O_3N_3$ *m*-Diethylaminophenolcinchomeronein (TEWARI), 1643.
$C_{27}H_{34}O_2N_2$ 2-Carboxy-*trans*-decahydronaphthalene-2-acet-*p*-toluidide (RAO), 1966.
$C_{27}H_{34}O_4N_2$ αε-Bis-(6:7-dimethoxy-3:4-dihydro*iso*quinolyl-1-)pentane, and its salts (CHILD and PYMAN), 2018.
$C_{27}H_{38}O_2N_2$ Nonane-1:9-dicarboxydi-β-phenylethylamide (CHILD and PYMAN), 2015.
$C_{27}H_{38}O_4N_2$ αε-Bis-(6:7-dimethoxytetrahydro*iso*quinolyl-1-)pentane hydrochloride (CHILD and PYMAN), 2019.
$C_{27}H_{38}O_6N_2$ Pimelodi-β-veratrylethylamide (CHILD and PYMAN), 2016.
$C_{27}H_{47}O_4P$ Cholesteryl dihydrogen phosphate, and its barium salt (PLIMMER and BURCH), 282, 296.

27 IV

$C_{27}H_{21}N_2IS_2$ Dimethyldibenzthiocarbocyanine iodides (HAMER), 2604.

C_{28} Group.

$C_{28}H_{18}$ *iso*Dianthranyl (BARNETT and GOODWAY), 814.
$C_{28}H_{22}$ 10-Benzhydryl-9-methylanthracene (BARNETT and GOODWAY), 1757.

28 II

$C_{28}H_{16}O_4$ 2:2′-Dihydroxy-1:1′-dianthranolyl (HARDACRE and PERKIN), 187.
$C_{28}H_{22}O_3$ 3′-*iso*Propyldi-β-naphtha*spiro*pyran (HEILBRON and IRVING), 942.
$C_{28}H_{24}O$ 13-Benzhydryl-9-methyl-9:10-dihydroanthranol-9 (BARNETT and GOODWAY), 1757.
Diphenyldi-*o*-tolylpinacolin (HATT), 1632.
o-Toluoyldiphenyl-*o*-tolylmethane (HATT), 1632.
$C_{28}H_{26}O$ 4-Ethoxy-3-methyltetraphenylmethane (HARDY), 1009.
$C_{28}H_{26}O_3$ 3:4:5-Trimethoxytetraphenylmethane (HARDY), 1005.
$C_{28}H_{26}O_8$ 5-Hydroxy-6:7:3′:4′:5′-pentamethoxy-2-styryl*iso*flavone (BAKER and ROBINSON), 159.
$C_{28}H_{32}O_{12}$ 7-*O*-Tetra-acetyl-β-glucosidoxy-1-methoxyxanthone (ROBERTSON and WATERS), 2243.

28 III

$C_{28}H_{16}O_4I_2$ 2:2′-Di-iodo-3:3′-dihydroxydianthrone (HARDACRE and PERKIN), 1190.
$C_{28}H_{22}O_9S_2$ 2:3-Ditoluene-*p*-sulphonylanthragallol (PERKIN and STORY), 1417.
$C_{28}H_{24}O_4N_4$ Substance, from *mm*′-dinitrobenzil and *o*-tolidine (BOON and NISBET), 1902.
$C_{28}H_{25}O_6N$ Ethyl diphenylmethylphthalimidomalonate (HARINGTON and MCCARTNEY), 896.
$C_{28}H_{26}O_2N_2$ Decahydronaphthalene-2:2-diaceto-*p*-toluidides (RAO), 1962, 1969.
Benzylidenestrychnine (PERKIN and ROBINSON), 998.
$C_{28}H_{28}O_2N_2$ Benzylidenedihydrostrychnine (PERKIN and ROBINSON), 982.

$C_{28}H_{30}O_{10}N_4$ 2′-Nitro-3′-4′-dimethoxyphenylaceto-β-3-(2″-nitro-3″:4″-dimethoxyphenylacetamido)phenylethylamide (GULLAND, HAWORTH, and VIRDEN), 1672.

$C_{28}H_{40}O_4N_2$ Decane-1:10-dicarboxydi-β-phenylethylamide (CHILD and PYMAN), 2015.

$C_{28}H_{40}O_4N_2$ αδ-Bis-(6:7-dimethoxy-2-methyltetrahydro*iso*quinolyl-1-)butane, and its hydrochloride (CHILD and PYMAN), 2018.

$C_{28}H_{40}O_6N_2$ Suberodi-β-veratrylethylamide (CHILD and PYMAN), 2016.

$C_{28}H_{45}ON_3$ Ergosta-dienone semicarbazones (HEILBRON, JOHNSTONE, and SPRING), 2254.

28 IV

$C_{28}H_{23}N_2IS_2$ 2:2′:3-Trimethyl-5:6:5′:6′-dibenzthiocarbocyanine iodide (HAMER), 2606.

$C_{28}H_{25}O_3NS$ *O*-*p*-Toluenesulphonylbenzylidene-*dl*-*iso*diphenylhydroxyethylamines (READ, CAMPBELL, and BARKER), 2312.

$C_{28}H_{28}O_2N_6As_2$ 3:3′-Diamino-4:4′-di-*p*-acetamidoanilinoarsenobenzene (BARBER), 475.

C_{29} Group.

$C_{29}H_{22}O$ Triphenylmethylnaphthols (HARDY), 1006.

$C_{29}H_{26}O_{11}$ *O*-2:4-Dimethoxybenzoyl-*O*-acetylmorin 3:2′:4′-trimethyl ether (ROBINSON and VENKATARAMAN), 64.

$C_{29}H_{28}O$ 4-Hydroxy-2-methyl-5-*iso*propyltetraphenylmethane (HARDY), 1006.

$C_{29}H_{30}O_2$ 3′-Octylbenzo-β-naphtha*spiro*pyran (HEILBRON and IRVING), 942.

$C_{29}H_{44}O_2$ Ergosterol acetates (HEILBRON and SEXTON), 925; (HEILBRON, JOHNSTONE, and SPRING), 2253; (HEILBRON and SPRING), 2809.

$C_{29}H_{46}O_2$ Dihydroergosterol acetates (HEILBRON, JOHNSTONE, and SPRING), 2252; (HEILBRON and SPRING), 2809.

Zymosterol acetate (HEILBRON and SEXTON), 2256.

$C_{29}H_{48}O_2$ Dihydrozymosterol acetate (HEILBRON and SEXTON), 2257.

$C_{29}H_{50}O$ Cholesteryl ethyl ether (PLIMMER and BURCH), 296.

29 III

$C_{29}H_{22}O_3S_2$ Ditoluene-*p*-sulphonyl-1-benzylidenecoumaran-2-one (PERKIN and STORY), 1420.

$C_{29}H_{23}O_5N$ 5-Nitro-1:2:3-tribenzyloxybenzene (BAKER, NODZU, and ROBINSON), 77.

$C_{29}H_{32}O_{11}N_4$ 2′-Nitro-3′:4′-dimethoxyphenylaceto-β-3-(2″-nitro-3″-4″-dimethoxyphenylacetamido)-4-methoxyphenylethylamide (CALLOW, GULLAND, and HAWORTH), 1454.

$C_{29}H_{34}O_2N_2$ Methoxybenzyldihydrostrychnidine (PERKIN and ROBINSON), 1000.

$C_{29}H_{36}O_2N_2$ Methoxybenzyltetrahydrostrychnidine (PERKIN and ROBINSON), 991.

$C_{29}H_{42}O_6N_2$ Azelaodi-β-veratrylethylamide (CHILD and PYMAN), 2016.

$C_{29}H_{46}OS_2$ Methyl cholesterylxanthate (BOSE and DORAN), 2246.

29 IV

$C_{29}H_{25}N_2BrS_2$ 2:2′-Diethyl-5:6:5′:6′-dibenzthiocarbocyanine bromide (HAMER), 2605.

$C_{29}H_{25}N_2IS_2$ Diethyldibenzthiocarbocyanine iodides (HAMER), 2605.

C_{30} Group.

$C_{30}H_{26}O_{11}$ Triacetylsyringetin 4′-benzyl ether (HEAP and ROBINSON), 72.

$C_{30}H_{30}O_2$ Di-*p*-tolyldi-*o*-tolylpinacol (HATT), 1631.

$C_{30}H_{40}O_2$ Bis(styryl hexyl ketones) (HEILBRON and IRVING), 935.

30 III

$C_{30}H_{29}O_6N$ Ethyl di-(4-methoxyphenyl)methylphthalimidomalonate (HARINGTON and MCCARTNEY), 893.

$C_{30}H_{30}O_4N_2$ Benzylidenebrucine, and its hydrochloride (PERKIN and ROBINSON), 998.

$C_{30}H_{40}O_4N_2$ $\alpha\theta$-Bis-(6:7-dimethoxy-3:4-dihydro*iso*quinolyl-1-)octane, and its salts (CHILD and PYMAN), 2020.

$C_{30}H_{44}O_6N_2$ Sebacodi-β-veratrylethylamide (CHILD and PYMAN), 2016.

30 IV

$C_{30}H_{27}N_2IS_2$ 8-Methyl-2:2′-diethyl-5:6-5′:6′-dibenzthiocarbocyanine iodide (HAMER), 2606.

C_{31} Group.

$C_{31}H_{24}O$ Diphenylyl-4-hydroxytriphenylmethane (HARDY), 1009.

31 III

$C_{31}H_{25}O_2N$ Dibenzylphenol-α-naphthylurethanes (SHORT and STEWART), 555.

$C_{31}H_{46}O_6N_2$ Nonane-1:9-dicarboxydi-β-veratrylethylamide (CHILD and PYMAN), 2016.

C_{32} Group.

$C_{32}H_{18}O_8$ Diacetoxydianthraquinonyls (HARDACRE and PERKIN), 186, 189.

$C_{32}H_{22}O_5$ 5-Hydroxy-7-cinnamoyloxy-3-phenyl-2-styrylbenzo-γ-pyrone (BAKER and EASTWOOD), 2902.

$C_{32}H_{30}O_9$ *O*-Benzylsyringic anhydride (HEAP and ROBINSON), 71.

$C_{32}H_{44}O_2$ Bis-(4-*iso*propyl styryl *iso*butyl ketone) (HEILBRON and IRVING), 934.
Bis(styryl *n*-heptyl ketone) (HEILBRON and IRVING), 935.

$C_{32}H_{44}O_4$ Bis-(4-methoxystyryl *n*-hexyl ketone (HEILBRON and IRVING), 935.

32 III

$C_{32}H_{16}O_6I_2$ 3:3′-Di-iodo-2:2′-diacetoxyhelianthrone (HARDACRE and PERKIN), 184.

$C_{32}H_{32}O_2N_6$ 2:3-Dimethylnaphthaquinoxaline (HENDERSON), 468.

$C_{32}H_{48}O_6N_2$ Decane-1:10-dicarboxydi-β-veratrylethylamide (CHILD and PYMAN), 2016.

$C_{32}H_{67}O_4P$ Dicetyl hydrogen phosphate, metallic salts (PLIMMER and BURCH), 281.

32 IV

$C_{32}H_{66}O_3ClP$ Dicetylphosphoryl chloride (PLIMMER and BURCH), 281.

C_{33} Group.

$C_{33}H_{22}O_6$ 4:4′-Dihydroxy-3:3′-dimethoxydianthrone (PERKIN and STORY), 1419.

$C_{33}H_{24}O_5$ 7-Cinnamoyloxy-3-*p*-methoxyphenyl-2-styrylbenzo-γ-pyrone (BAKER and EASTWOOD), 2903.

$C_{33}H_{24}O$ 9-Phenyl-10-benzhydryl-9:10-dihydroanthranol-9 (BARNETT and GOODWAY), 1757.

$C_{33}H_{32}O_2$ 3′-Octyldi-β-naphtha*spiro*pyran (HEILBRON and IRVING), 943.

33 III

$C_{33}H_{24}OCl_2$ *iso*-1:5-Dichloro-9-phenyl-10-benzhydryl-9:10-dihydroanthranol (BARNETT and GOODWAY), 22.

$C_{33}H_{44}O_{10}N_2$ Palmitin di-*p*-nitrobenzoate (FAIRBOURNE and COWDREY), 135.

C_{34} Group.

$C_{34}H_{26}$ 10-Benzhydryl-9-benzylanthracene (BARNETT and GOODWAY), 1757.

34 II

$C_{34}H_{28}O$ 10-Benzhydryl-9-benzyl-9:10-dihydroanthranol-9 (BARNETT and GOODWAY), 1757.

$C_{34}H_{48}O_2$ Bis(styryl *n*-octyl ketone) (HEILBRON and IRVING), 936.

C_{35} Group.

$C_{35}H_{27}O_6N$ Tribenzoyl derivative of $\beta\beta$-di-(4-hydroxyphenyl) ethylamine (HARINGTON and MCCARTNEY), 895.

C_{36} Group.

$C_{36}H_{28}O_8$ Diacetyl-2:2′-diacetoxy-1:1′-dianthranolyl (HARDACRE and PERKIN), 187.

36 III

$C_{36}H_{24}O_6I_2$ Diacetyl-2:2′-di-iodo-3:3′-diacetoxydianthranol (HARDACRE and PERKIN), 190.

C_{40} Group.

$C_{40}H_{30}O_{14}$ Hexa-acetoxydianthrone (HARDACRE and PERKIN), 192.

C_{42} Group.

$C_{42}H_{42}OSi_2$ Tri-*p*-tolylsilicyl oxide (STEELE and KIPPING), 358.

42 V

$C_{42}H_{57}O_2N_6Cl_3Co_2$ Hexabenzylaminetrihydroxodicobalt trichloride (PERCIVAL and WARDLAW), 1321.

C_{44} Group.

$C_{44}H_{34}O_{16}$ Octa-acetoxydianthranol (HARDACRE and PERKIN), 192.

C_{46} Group.

$C_{46}H_{38}O_2$ 1:3-Dimethoxy-4:6-bistriphenylmethylbenzene (HARDY), 1005.

C_{48} Group.

$C_{48}H_{99}O_4P$ Tricetyl phosphate (PLIMMER and BURCH), 282.

C_{54} Group.

$C_{54}H_{91}O_4P$ Dicholesteryl hydrogen phosphate, and its barium salt (PLIMMER and BURCH), 283.

C_{56} Group.

$C_{56}H_{56}Si_4$ Octa-*p*-tolylsilicotetrane (STEELE and KIPPING), 2547.
Octa-*p*-tolyl*cyclo*silicotetrane (STEELE and KIPPING), 2548.

56 III

$C_{56}H_{56}OSi_4$ Octa-*p*-tolylsilicotetrane oxide (STEELE and KIPPING), 2548.
$C_{56}H_{56}I_2Si_4$ Octa-*p*-tolylsilicotetrane di-iodide (STEELE and KIPPING), 2547.

C_{81} Group.

$C_{81}H_{153}O_4P$ Tricholesteryl phosphate (PLIMMER and BURCH), 283.